Algoritma TA.m

```
function varargout = TA(varargin)
% TA M-file for TA.fig
%      TA, by itself, creates a new TA or raises the existing
%      singleton*.
%
%      H = TA returns the handle to a new TA or the handle to
%      the existing singleton*.
%
%      TA('CALLBACK',hObject,eventData,handles,...) calls the local
%      function named CALLBACK in TA.M with the given input arguments.
%
%      TA('Property','Value',...) creates a new TA or raises the
%      existing singleton*.  Starting from the left, property value pairs are
%      applied to the GUI before TA_OpeningFunction gets called.  An
%      unrecognized property name or invalid value makes property application
%      stop.  All inputs are passed to TA_OpeningFcn via varargin.
%
%      *See GUI Options on GUIDE's Tools menu.  Choose "GUI allows only one
%      instance to run (singleton)".
%
% See also: GUIDE, GUIDATA, GUIHANDLES

% Edit the above text to modify the response to help TA

% Last Modified by GUIDE v2.5 29-Jan-2008 23:22:01

% Begin initialization code - DO NOT EDIT
gui_Singleton = 1;
gui_State = struct('gui_Name',       mfilename, ...
                   'gui_Singleton',  gui_Singleton, ...
                   'gui_OpeningFcn', @TA_OpeningFcn, ...
                   'gui_OutputFcn',  @TA_OutputFcn, ...
                   'gui_LayoutFcn',  [] , ...
                   'gui_Callback',   []);
if nargin && ischar(varargin{1})
    gui_State.gui_Callback = str2func(varargin{1});
end

if nargout
    [varargout{1:nargout}] = gui_mainfcn(gui_State, varargin{:});
else
    gui_mainfcn(gui_State, varargin{:});
end
% End initialization code - DO NOT EDIT

% --- Executes just before TA is made visible.
function TA_OpeningFcn(hObject, eventdata, handles, varargin)
% This function has no output args, see OutputFcn.
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
% varargin   command line arguments to TA (see VARARGIN)

% Choose default command line output for TA
handles.output = hObject;

% Update handles structure
guidata(hObject, handles);

% UIWAIT makes TA wait for user response (see UIRESUME)
% uiwait(handles.figure1);

% --- Outputs from this function are returned to the command line.
function varargout = TA_OutputFcn(hObject, eventdata, handles)
% varargout  cell array for returning output args (see VARARGOUT);
% hObject    handle to figure
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

% Get default command line output from handles structure
varargout{1} = handles.output;


% --- Executes on button press in btnbukagbr.
function btnbukagbr_Callback(hObject, eventdata, handles)
% hObject    handle to btnbukagbr (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

proyek=guidata(gcbo);
[namafile,direktori]=uigetfile({'*.bmp'},'Buka
Gambar');
I=imread(namafile);
set(proyek.figTA,'currentaxes',proyek.gbr);
set(imshow(I));
set(proyek.gbr,'userdata',I);


% --- Executes on button press in btnkenali.
function btnkenali_Callback(hObject, eventdata, handles)
% hObject    handle to btnkenali (see GCBO)

% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)


image1=imread('abcde1.bmp');
image2=imread('abcde2.bmp');
image3=imread('abcde3.bmp');
image4=imread('abcde4.bmp');
image5=imread('abcde5.bmp');
image6=imread('abcde6.bmp');
image7=imread('abcde7.bmp');
image8=imread('abcde8.bmp');
image9=imread('abcde9.bmp');
image10=imread('abcde10.bmp');
image11=imread('fghij1.bmp');
image12=imread('fghij2.bmp');
image13=imread('fghij3.bmp');
image14=imread('fghij4.bmp');
```

```
image15=imread('fghij5.bmp');
image16=imread('fghij6.bmp');
image17=imread('fghij7.bmp');
image18=imread('fghij8.bmp');
image19=imread('fghij9.bmp');
image20=imread('fghij10.bmp');
image21=imread('klmno1.bmp');
image22=imread('klmno2.bmp');
image23=imread('klmno3.bmp');
image24=imread('klmno4.bmp');
image25=imread('klmno5.bmp');
image26=imread('klmno6.bmp');
image27=imread('klmno7.bmp');
image28=imread('klmno8.bmp');
image29=imread('klmno9.bmp');
image30=imread('klmno10.bmp');
image31=imread('pqrst1.bmp');
image32=imread('pqrst2.bmp');
image33=imread('pqrst3.bmp');
image34=imread('pqrst4.bmp');
image35=imread('pqrst5.bmp');
image36=imread('pqrst6.bmp');
image37=imread('pqrst7.bmp');
image38=imread('pqrst8.bmp');
image39=imread('pqrst9.bmp');
image40=imread('pqrst10.bmp');
image41=imread('uvwxy1.bmp');
image42=imread('uvwxy2.bmp');
image43=imread('uvwxy3.bmp');
image44=imread('uvwxy4.bmp');
image45=imread('uvwxy5.bmp');
image46=imread('uvwxy6.bmp');
image47=imread('uvwxy7.bmp');
image48=imread('uvwxy8.bmp');
image49=imread('uvwxy9.bmp');
image50=imread('uvwxy10.bmp');
image51=imread('z1.bmp');
image52=imread('z2.bmp');
image53=imread('z3.bmp');
image54=imread('z4.bmp');
image55=imread('z5.bmp');
image56=imread('z6.bmp');
image57=imread('z7.bmp');
image58=imread('z8.bmp');
image59=imread('z9.bmp');
image60=imread('z10.bmp');

%Database huruf-huruf
a1=image1(1:14,1:14);          a1=reshape(a1,1,196);
a1=single(a1);
b1=image1(1:14,15:28);         b1=reshape(b1,1,196);
b1=single(b1);
c1=image1(1:14,29:42);         c1=reshape(c1,1,196);
c1=single(c1);
d1=image1(1:14,43:56);         d1=reshape(d1,1,196);
d1=single(d1);
e1=image1(1:14,57:70);         e1=reshape(e1,1,196);
e1=single(e1);
f1=image11(1:14,1:14);         f1=reshape(f1,1,196);
f1=single(f1);
g1=image11(1:14,15:28);        g1=reshape(g1,1,196);
g1=single(g1);
h1=image11(1:14,29:42);        h1=reshape(h1,1,196);
h1=single(h1);
i1=image11(1:14,43:56);        i1=reshape(i1,1,196);
i1=single(i1);
j1=image11(1:14,57:70);        j1=reshape(j1,1,196);
j1=single(j1);
k1=image21(1:14,1:14);         k1=reshape(k1,1,196);
k1=single(k1);
l1=image21(1:14,15:28);        l1=reshape(l1,1,196);
l1=single(l1);
m1=image21(1:14,29:42);        m1=reshape(m1,1,196;
m1=single(m1);
n1=image21(1:14,43:56);        n1=reshape(n1,1,196);
n1=single(n1);
o1=image21(1:14,57:70);        o1=reshape(o1,1,196);
o1=single(o1);
p1=image31(1:14,1:14);         p1=reshape(p1,1,196);
p1=single(p1);
q1=image31(1:14,15:28);        q1=reshape(q1,1,196);
q1=single(q1);
r1=image31(1:14,29:42);        r1=reshape(r1,1,196);
r1=single(r1);
s1=image31(1:14,43:56);        s1=reshape(s1,1,196);
s1=single(s1);
t1=image31(1:14,57:70);        t1=reshape(t1,1,196);
t1=single(t1);
u1=image41(1:14,1:14);         u1=reshape(u1,1,196);
u1=single(u1);
v1=image41(1:14,15:28);        v1=reshape(v1,1,196);
v1=single(v1);
w1=image41(1:14,29:42);        w1=reshape(w1,1,196);
w1=single(w1);
x1=image41(1:14,43:56);        x1=reshape(x1,1,196);
x1=single(x1);
y1=image41(1:14,57:70);        y1=reshape(y1,1,196);
y1=single(y1);
z1=image51(1:14,1:14);         z1=reshape(z1,1,196);
z1=single(z1);


a2=image2(1:14,1:14);          a2=reshape(a2,1,196);
a2=single(a2);
b2=image2(1:14,15:28);         b2=reshape(b2,1,196);
b2=single(b2);
c2=image2(1:14,29:42);         c2=reshape(c2,1,196);
c2=single(c2);
d2=image2(1:14,43:56);         d2=reshape(d2,1,196);
d2=single(d2);
e2=image2(1:14,57:70);         e2=reshape(e2,1,196);
e2=single(e2);
f2=image12(1:14,1:14);         f2=reshape(f2,1,196);
f2=single(f2);
g2=image12(1:14,15:28);        g2=reshape(g2,1,196);
g2=single(g2);
h2=image12(1:14,29:42);        h2=reshape(h2,1,196);
h2=single(h2);
i2=image12(1:14,43:56);        i2=reshape(i2,1,196);
i2=single(i2);
j2=image12(1:14,57:70);        j2=reshape(j2,1,196);
j2=single(j2);
k2=image22(1:14,1:14);         k2=reshape(k2,1,196);
k2=single(k2);
l2=image22(1:14,15:28);        l2=reshape(l2,1,196);
l2=single(l2);
m2=image22(1:14,29:42);        m2=reshape(m2,1,196);
m2=single(m2);
n2=image22(1:14,43:56);        n2=reshape(n2,1,196);
n2=single(n2);
o2=image22(1:14,57:70);        o2=reshape(o2,1,196);
o2=single(o2);
p2=image32(1:14,1:14);         p2=reshape(p2,1,196);
p2=single(p2);
q2=image32(1:14,15:28);        q2=reshape(q2,1,196);
q2=single(q2);
r2=image32(1:14,29:42);        r2=reshape(r2,1,196);
r2=single(r2);
s2=image32(1:14,43:56);        s2=reshape(s2,1,196);
s2=single(s2);
```

```
t2=image32(1:14,57:70);          t2=reshape(t2,1,196);
t2=single(t2);
u2=image42(1:14,1:14);           u2=reshape(u2,1,196);
u2=single(u2);
v2=image42(1:14,15:28);          v2=reshape(v2,1,196);
v2=single(v2);
w2=image42(1:14,29:42);          w2=reshape(w2,1,196);
w2=single(w2);
x2=image42(1:14,43:56);          x2=reshape(x2,1,196);
x2=single(x2);
y2=image42(1:14,57:70);          y2=reshape(y2,1,196);
y2=single(y2);
z2=image52(1:14,1:14);           z2=reshape(z2,1,196);
z2=single(z2);

a3=image3(1:14,1:14);            a3=reshape(a3,1,196);
a3=single(a3);
b3=image3(1:14,15:28);           b3=reshape(b3,1,196);
b3=single(b3);
c3=image3(1:14,29:42);           c3=reshape(c3,1,196);
c3=single(c3);
d3=image3(1:14,43:56);           d3=reshape(d3,1,196);
d3=single(d3);
e3=image3(1:14,57:70);           e3=reshape(e3,1,196);
e3=single(e3);
f3=image13(1:14,1:14);           f3=reshape(f3,1,196);
f3=single(f3);
g3=image13(1:14,15:28);          g3=reshape(g3,1,196);
g3=single(g3);
h3=image13(1:14,29:42);          h3=reshape(h3,1,196);
h3=single(h3);
i3=image13(1:14,43:56);          i3=reshape(i3,1,196);
i3=single(i3);
j3=image13(1:14,57:70);          j3=reshape(j3,1,196);
j3=single(j3);
k3=image23(1:14,1:14);           k3=reshape(k3,1,196);
k3=single(k3);
l3=image23(1:14,15:28);          l3=reshape(l3,1,196);
l3=single(l3);
m3=image23(1:14,29:42);          m3=reshape(m3,1,196;
m3=single(m3);
n3=image23(1:14,43:56);          n3=reshape(n3,1,196);
n3=single(n3);
o3=image23(1:14,57:70);          o3=reshape(o3,1,196);
o3=single(o3);
p3=image33(1:14,1:14);           p3=reshape(p3,1,196);
p3=single(p3);
q3=image33(1:14,15:28);          q3=reshape(q3,1,196);
q3=single(q3);
r3=image33(1:14,29:42);          r3=reshape(r3,1,196);
r3=single(r3);
s3=image33(1:14,43:56);          s3=reshape(s3,1,196);
s3=single(s3);
t3=image33(1:14,57:70);          t3=reshape(t3,1,196);
t3=single(t3);
u3=image43(1:14,1:14);           u3=reshape(u3,1,196);
u3=single(u3);
v3=image43(1:14,15:28);          v3=reshape(v3,1,196);
v3=single(v3);
w3=image43(1:14,29:42);          w3=reshape(w3,1,196);
w3=single(w3);
x3=image43(1:14,43:56);          x3=reshape(x3,1,196);
x3=single(x3);
y3=image43(1:14,57:70);          y3=reshape(y3,1,196);
y3=single(y3);
z3=image53(1:14,1:14);           z3=reshape(z3,1,196);
z3=single(z3);

a4=image4(1:14,1:14);            a4=reshape(a4,1,196);
a4=single(a4);
b4=image4(1:14,15:28);           b4=reshape(b4,1,196);
b4=single(b4);
c4=image4(1:14,29:42);           c4=reshape(c4,1,196);
c4=single(c4);
d4=image4(1:14,43:56);           d4=reshape(d4,1,196);
d4=single(d4);
e4=image4(1:14,57:70);           e4=reshape(e4,1,196);
e4=single(e4);
f4=image14(1:14,1:14);           f4=reshape(f4,1,196);
f4=single(f4);
g4=image14(1:14,15:28);          g4=reshape(g4,1,196);
g4=single(g4);
h4=image14(1:14,29:42);          h4=reshape(h4,1,196);
h4=single(h4);
i4=image14(1:14,43:56);          i4=reshape(i4,1,196);
i4=single(i4);
j4=image14(1:14,57:70);          j4=reshape(j4,1,196);
j4=single(j4);
k4=image24(1:14,1:14);           k4=reshape(k4,1,196);
k4=single(k4);
l4=image24(1:14,15:28);          l4=reshape(l4,1,196);
l4=single(l4);
m4=image24(1:14,29:42);          m4=reshape(m4,1,196);
m4=single(m4);
n4=image24(1:14,43:56);          n4=reshape(n4,1,196);
n4=single(n4);
o4=image24(1:14,57:70);          o4=reshape(o4,1,196);
o4=single(o4);
p4=image34(1:14,1:14);           p4=reshape(p4,1,196);
p4=single(p4);
q4=image34(1:14,15:28);          q4=reshape(q4,1,196);
q4=single(q4);
r4=image34(1:14,29:42);          r4=reshape(r4,1,196);
r4=single(r4);
s4=image34(1:14,43:56);          s4=reshape(s4,1,196);
s4=single(s4);
t4=image34(1:14,57:70);          t4=reshape(t4,1,196);
t4=single(t4);
u4=image44(1:14,1:14);           u4=reshape(u4,1,196);
u4=single(u4);
v4=image44(1:14,15:28);          v4=reshape(v4,1,196);
v4=single(v4);
w4=image44(1:14,29:42);          w4=reshape(w4,1,196);
w4=single(w4);
x4=image44(1:14,43:56);          x4=reshape(x4,1,196);
x4=single(x4);
y4=image44(1:14,57:70);          y4=reshape(y4,1,196);
y4=single(y4);
z4=image54(1:14,1:14);           z4=reshape(z4,1,196);
z4=single(z4);

a5=image5(1:14,1:14);            a5=reshape(a5,1,196);
a5=single(a5);
b5=image5(1:14,15:28);           b5=reshape(b5,1,196);
b5=single(b5);
c5=image5(1:14,29:42);           c5=reshape(c5,1,196);
c5=single(c5);
d5=image5(1:14,43:56);           d5=reshape(d5,1,196);
d5=single(d5);
e5=image5(1:14,57:70);           e5=reshape(e5,1,196);
e5=single(e5);
f5=image15(1:14,1:14);           f5=reshape(f5,1,196);
f5=single(f5);
g5=image15(1:14,15:28);          g5=reshape(g5,1,196);
g5=single(g5);
h5=image15(1:14,29:42);          h5=reshape(h5,1,196);
h5=single(h5);
i5=image15(1:14,43:56);          i5=reshape(i5,1,196);
i5=single(i5);
j5=image15(1:14,57:70);          j5=reshape(j5,1,196);
j5=single(j5);
```

```
k5=image25(1:14,1:14);  k5=reshape(k5,1,196);  k5=single(k5);
l5=image25(1:14,15:28);  l5=reshape(l5,1,196);  l5=single(l5);
m5=image25(1:14,29:42);  m5=reshape(m5,1,196);  m5=single(m5);
n5=image25(1:14,43:56);  n5=reshape(n5,1,196);  n5=single(n5);
o5=image25(1:14,57:70);  o5=reshape(o5,1,196);  o5=single(o5);
p5=image35(1:14,1:14);  p5=reshape(p5,1,196);  p5=single(p5);
q5=image35(1:14,15:28);  q5=reshape(q5,1,196);  q5=single(q5);
r5=image35(1:14,29:42);  r5=reshape(r5,1,196);  r5=single(r5);
s5=image35(1:14,43:56);  s5=reshape(s5,1,196);  s5=single(s5);
t5=image35(1:14,57:70);  t5=reshape(t5,1,196);  t5=single(t5);
u5=image45(1:14,1:14);  u5=reshape(u5,1,196);  u5=single(u5);
v5=image45(1:14,15:28);  v5=reshape(v5,1,196);  v5=single(v5);
w5=image45(1:14,29:42);  w5=reshape(w5,1,196);  w5=single(w5);
x5=image45(1:14,43:56);  x5=reshape(x5,1,196);  x5=single(x5);
y5=image45(1:14,57:70);  y5=reshape(y5,1,196);  y5=single(y5);
z5=image55(1:14,1:14);  z5=reshape(z5,1,196);  z5=single(z5);

a6=image6(1:14,1:14);  a6=reshape(a6,1,196);  a6=single(a6);
b6=image6(1:14,15:28);  b6=reshape(b6,1,196);  b6=single(b6);
c6=image6(1:14,29:42);  c6=reshape(c6,1,196);  c6=single(c6);
d6=image6(1:14,43:56);  d6=reshape(d6,1,196);  d6=single(d6);
e6=image6(1:14,57:70);  e6=reshape(e6,1,196);  e6=single(e6);
f6=image16(1:14,1:14);  f6=reshape(f6,1,196);  f6=single(f6);
g6=image16(1:14,15:28);  g6=reshape(g6,1,196);  g6=single(g6);
h6=image16(1:14,29:42);  h6=reshape(h6,1,196);  h6=single(h6);
i6=image16(1:14,43:56);  i6=reshape(i6,1,196);  i6=single(i6);
j6=image16(1:14,57:70);  j6=reshape(j6,1,196);  j6=single(j6);
k6=image26(1:14,1:14);  k6=reshape(k6,1,196);  k6=single(k6);
l6=image26(1:14,15:28);  l6=reshape(l6,1,196);  l6=single(l6);
m6=image26(1:14,29:42);  m6=reshape(m6,1,196);  m6=single(m6);
n6=image26(1:14,43:56);  n6=reshape(n6,1,196);  n6=single(n6);
o6=image26(1:14,57:70);  o6=reshape(o6,1,196);  o6=single(o6);
p6=image36(1:14,1:14);  p6=reshape(p6,1,196);  p6=single(p6);
q6=image36(1:14,15:28);  q6=reshape(q6,1,196);  q6=single(q6);
r6=image36(1:14,29:42);  r6=reshape(r6,1,196);  r6=single(r6);
s6=image36(1:14,43:56);  s6=reshape(s6,1,196);  s6=single(s6);
t6=image36(1:14,57:70);  t6=reshape(t6,1,196);  t6=single(t6);
u6=image46(1:14,1:14);  u6=reshape(u6,1,196);  u6=single(u6);
v6=image46(1:14,15:28);  v6=reshape(v6,1,196);  v6=single(v6);
w6=image46(1:14,29:42);  w6=reshape(w6,1,196);  w6=single(w6);
x6=image46(1:14,43:56);  x6=reshape(x6,1,196);  x6=single(x6);
y6=image46(1:14,57:70);  y6=reshape(y6,1,196);  y6=single(y6);
z6=image56(1:14,1:14);  z6=reshape(z6,1,196);  z6=single(z6);

a7=image7(1:14,1:14);  a7=reshape(a7,1,196);  a7=single(a7);
b7=image7(1:14,15:28);  b7=reshape(b7,1,196);  b7=single(b7);
c7=image7(1:14,29:42);  c7=reshape(c7,1,196);  c7=single(c7);
d7=image7(1:14,43:56);  d7=reshape(d7,1,196);  d7=single(d7);
e7=image7(1:14,57:70);  e7=reshape(e7,1,196);  e7=single(e7);
f7=image17(1:14,1:14);  f7=reshape(f7,1,196);  f7=single(f7);
g7=image17(1:14,15:28);  g7=reshape(g7,1,196);  g7=single(g7);
h7=image17(1:14,29:42);  h7=reshape(h7,1,196);  h7=single(h7);
i7=image17(1:14,43:56);  i7=reshape(i7,1,196);  i7=single(i7);
j7=image17(1:14,57:70);  j7=reshape(j7,1,196);  j7=single(j7);
k7=image27(1:14,1:14);  k7=reshape(k7,1,196);  k7=single(k7);
l7=image27(1:14,15:28);  l7=reshape(l7,1,196);  l7=single(l7);
m7=image27(1:14,29:42);  m7=reshape(m7,1,196;  m7=single(m7);
n7=image27(1:14,43:56);  n7=reshape(n7,1,196);  n7=single(n7);
o7=image27(1:14,57:70);  o7=reshape(o7,1,196);  o7=single(o7);
p7=image37(1:14,1:14);  p7=reshape(p7,1,196);  p7=single(p7);
q7=image37(1:14,15:28);  q7=reshape(q7,1,196);  q7=single(q7);
r7=image37(1:14,29:42);  r7=reshape(r7,1,196);  r7=single(r7);
s7=image37(1:14,43:56);  s7=reshape(s7,1,196);  s7=single(s7);
t7=image37(1:14,57:70);  t7=reshape(t7,1,196);  t7=single(t7);
u7=image47(1:14,1:14);  u7=reshape(u7,1,196);  u7=single(u7);
v7=image47(1:14,15:28);  v7=reshape(v7,1,196);  v7=single(v7);
w7=image47(1:14,29:42);  w7=reshape(w7,1,196);  w7=single(w7);
x7=image47(1:14,43:56);  x7=reshape(x7,1,196);  x7=single(x7);
y7=image47(1:14,57:70);  y7=reshape(y7,1,196);  y7=single(y7);
z7=image57(1:14,1:14);  z7=reshape(z7,1,196);  z7=single(z7);

a8=image8(1:14,1:14);  a8=reshape(a8,1,196);  a8=single(a8);
```

```
b8=image8(1:14,15:28);  b8=reshape(b8,1,196);  b8=single(b8);
c8=image8(1:14,29:42);  c8=reshape(c8,1,196);  c8=single(c8);
d8=image8(1:14,43:56);  d8=reshape(d8,1,196);  d8=single(d8);
e8=image8(1:14,57:70);  e8=reshape(e8,1,196);  e8=single(e8);
f8=image18(1:14,1:14);  f8=reshape(f8,1,196);  f8=single(f8);
g8=image18(1:14,15:28);  g8=reshape(g8,1,196);  g8=single(g8);
h8=image18(1:14,29:42);  h8=reshape(h8,1,196);  h8=single(h8);
i8=image18(1:14,43:56);  i8=reshape(i8,1,196);  i8=single(i8);
j8=image18(1:14,57:70);  j8=reshape(j8,1,196);  j8=single(j8);
k8=image28(1:14,1:14);  k8=reshape(k8,1,196);  k8=single(k8);
l8=image28(1:14,15:28);  l8=reshape(l8,1,196);  l8=single(l8);
m8=image28(1:14,29:42);  m8=reshape(m8,1,196;  m8=single(m8);
n8=image28(1:14,43:56);  n8=reshape(n8,1,196);  n8=single(n8);
o8=image28(1:14,57:70);  o8=reshape(o8,1,196);  o8=single(o8);
p8=image38(1:14,1:14);  p8=reshape(p8,1,196);  p8=single(p8);
q8=image38(1:14,15:28);  q8=reshape(q8,1,196);  q8=single(q8);
r8=image38(1:14,29:42);  r8=reshape(r8,1,196);  r8=single(r8);
s8=image38(1:14,43:56);  s8=reshape(s8,1,196);  s8=single(s8);
t8=image38(1:14,57:70);  t8=reshape(t8,1,196);  t8=single(t8);
u8=image48(1:14,1:14);  u8=reshape(u8,1,196);  u8=single(u8);
v8=image48(1:14,15:28);  v8=reshape(v8,1,196);  v8=single(v8);
w8=image48(1:14,29:42);  w8=reshape(w8,1,196);  w8=single(w8);
x8=image48(1:14,43:56);  x8=reshape(x8,1,196);  x8=single(x8);
y8=image48(1:14,57:70);  y8=reshape(y8,1,196);  y8=single(y8);
z8=image58(1:14,1:14);  z8=reshape(z8,1,196);  z8=single(z8);

a9=image9(1:14,1:14);  a9=reshape(a9,1,196);  a9=single(a9);
b9=image9(1:14,15:28);  b9=reshape(b9,1,196);  b9=single(b9);
c9=image9(1:14,29:42);  c9=reshape(c9,1,196);  c9=single(c9);
d9=image9(1:14,43:56);  d9=reshape(d9,1,196);  d9=single(d9);
e9=image9(1:14,57:70);  e9=reshape(e9,1,196);  e9=single(e9);
f9=image19(1:14,1:14);  f9=reshape(f9,1,196);  f9=single(f9);
g9=image19(1:14,15:28);  g9=reshape(g9,1,196);  g9=single(g9);
h9=image19(1:14,29:42);  h9=reshape(h9,1,196);  h9=single(h9);
i9=image19(1:14,43:56);  i9=reshape(i9,1,196);  i9=single(i9);
j9=image19(1:14,57:70);  j9=reshape(j9,1,196);  j9=single(j9);
k9=image29(1:14,1:14);  k9=reshape(k9,1,196);  k9=single(k9);
l9=image29(1:14,15:28);  l9=reshape(l9,1,196);  l9=single(l9);
m9=image29(1:14,29:42);  m9=reshape(m9,1,196);  m9=single(m9);
n9=image29(1:14,43:56);  n9=reshape(n9,1,196);  n9=single(n9);
o9=image29(1:14,57:70);  o9=reshape(o9,1,196);  o9=single(o9);
p9=image39(1:14,1:14);  p9=reshape(p9,1,196);  p9=single(p9);
q9=image39(1:14,15:28);  q9=reshape(q9,1,196);  q9=single(q9);
r9=image39(1:14,29:42);  r9=reshape(r9,1,196);  r9=single(r9);
s9=image39(1:14,43:56);  s9=reshape(s9,1,196);  s9=single(s9);
t9=image39(1:14,57:70);  t9=reshape(t9,1,196);  t9=single(t9);
u9=image49(1:14,1:14);  u9=reshape(u9,1,196);  u9=single(u9);
v9=image49(1:14,15:28);  v9=reshape(v9,1,196);  v9=single(v9);
w9=image49(1:14,29:42);  w9=reshape(w9,1,196);  w9=single(w9);
x9=image49(1:14,43:56);  x9=reshape(x9,1,196);  x9=single(x9);
y9=image49(1:14,57:70);  y9=reshape(y9,1,196);  y9=single(y9);
z9=image59(1:14,1:14);  z9=reshape(z9,1,196);  z9=single(z9);

a10=image10(1:14,1:14);  a10=reshape(a10,1,196);  a10=single(a10);
b10=image10(1:14,15:28);  b10=reshape(b10,1,196);  b10=single(b10);
c10=image10(1:14,29:42);  c10=reshape(c10,1,196);  c10=single(c10);
d10=image10(1:14,43:56);  d10=reshape(d10,1,196);  d10=single(d10);
e10=image10(1:14,57:70);e  10=reshape(e10,1,196);  e10=single(e10);
f10=image20(1:14,1:14);  f10=reshape(f10,1,196);  f10=single(f10);
g10=image20(1:14,15:28);  g10=reshape(g10,1,196);  g10=single(g10);
h10=image20(1:14,29:42);  h10=reshape(h10,1,196);  h10=single(h10);
i10=image20(1:14,43:56);  i10=reshape(i10,1,196);  i10=single(i10);
j10=image20(1:14,57:70);  j10=reshape(j10,1,196);  j10=single(j10);
k10=image30(1:14,1:14);  k10=reshape(k10,1,196);  k10=single(k10);
l10=image30(1:14,15:28);  l10=reshape(l10,1,196);  l10=single(l10);
m10=image30(1:14,29:42);  m10=reshape(m10,1,196);  m10=single(m10);
n10=image30(1:14,43:56);  n10=reshape(n10,1,196);  n10=single(n10);
o10=image30(1:14,57:70);  o10=reshape(o10,1,196);  o10=single(o10);
p10=image40(1:14,1:14);  p10=reshape(p10,1,196);  p10=single(p10);
q10=image40(1:14,15:28);  q10=reshape(q10,1,196);  q10=single(q10);
r10=image40(1:14,29:42);  r10=reshape(r10,1,196);  r10=single(r10);
s10=image40(1:14,43:56);  s10=reshape(s10,1,196);  s10=single(s10);
```

```
t10=image40(1:14,57:70)        ;t10=reshape(t10,1,196);
t10=single(t10);
u10=image50(1:14,1:14);        u10=reshape(u10,1,196);
u10=single(u10);
v10=image50(1:14,15:28);       v10=reshape(v10,1,196);
v10=single(v10);
w10=image50(1:14,29:42);       w10=reshape(w10,1,196);
w10=single(w10);
x10=image50(1:14,43:56);       x10=reshape(x10,1,196);
x10=single(x10);
y10=image50(1:14,57:70);       y10=reshape(y10,1,196);
y10=single(y10);
z10=image60(1:14,1:14);        z10=reshape(z10,1,196);
z10=single(z10);

x(1,1:196)=a1;
x(2,1:196)=b1;
x(3,1:196)=c1;
x(4,1:196)=d1;
x(5,1:196)=e1;
x(6,1:196)=f1;
x(7,1:196)=g1;
x(8,1:196)=h1;
x(9,1:196)=i1;
x(10,1:196)=j1;
x(11,1:196)=k1;
x(12,1:196)=l1;
x(13,1:196)=m1;
x(14,1:196)=n1;
x(15,1:196)=o1;
x(16,1:196)=p1;
x(17,1:196)=q1;
x(18,1:196)=r1;
x(19,1:196)=s1;
x(20,1:196)=t1;
x(21,1:196)=u1;
x(22,1:196)=v1;
x(23,1:196)=w1;
x(24,1:196)=x1;
x(25,1:196)=y1;
x(26,1:196)=z1;
x(27,1:196)=a2;
x(28,1:196)=b2;
x(29,1:196)=c2;
x(30,1:196)=d2;
x(31,1:196)=e2;
x(32,1:196)=f2;
x(33,1:196)=g2;
x(34,1:196)=h2;
x(35,1:196)=i2;
x(36,1:196)=j2;
x(37,1:196)=k2;
x(38,1:196)=l2;
x(39,1:196)=m2;
x(40,1:196)=n2;
x(41,1:196)=o2;
x(42,1:196)=p2;
x(43,1:196)=q2;
x(44,1:196)=r2;
x(45,1:196)=s2;
x(46,1:196)=t2;
x(47,1:196)=u2;
x(48,1:196)=v2;
x(49,1:196)=w2;
x(50,1:196)=x2;
x(51,1:196)=y2;
x(52,1:196)=z2;

x(53,1:196)=a3;
x(54,1:196)=b3;
x(55,1:196)=c3;
x(56,1:196)=d3;
x(57,1:196)=e3;
x(58,1:196)=f3;
x(59,1:196)=g3;
x(60,1:196)=h3;
x(61,1:196)=i3;
x(62,1:196)=j3;
x(63,1:196)=k3;
x(64,1:196)=l3;
x(65,1:196)=m3;
x(66,1:196)=n3;
x(67,1:196)=o3;
x(68,1:196)=p3;
x(69,1:196)=q3;
x(70,1:196)=r3;
x(71,1:196)=s3;
x(72,1:196)=t3;
x(73,1:196)=u3;
x(74,1:196)=v3;
x(75,1:196)=w3;
x(76,1:196)=x3;
x(77,1:196)=y3;
x(78,1:196)=z3;

x(79,1:196)=a4;
x(80,1:196)=b4;
x(81,1:196)=c4;
x(82,1:196)=d4;
x(83,1:196)=e4;
x(84,1:196)=f4;
x(85,1:196)=g4;
x(86,1:196)=h4;
x(87,1:196)=i4;
x(88,1:196)=j4;
x(89,1:196)=k4;
x(90,1:196)=l4;
x(91,1:196)=m4;
x(92,1:196)=n4;
x(93,1:196)=o4;
x(94,1:196)=p4;
x(95,1:196)=q4;
x(96,1:196)=r4;
x(97,1:196)=s4;
x(98,1:196)=t4;
x(99,1:196)=u4;
x(100,1:196)=v4;
x(101,1:196)=w4;
x(102,1:196)=x4;
x(103,1:196)=y4;
x(104,1:196)=z4;

x(105,1:196)=a5;
x(106,1:196)=b5;
x(107,1:196)=c5;
x(108,1:196)=d5;
x(109,1:196)=e5;
x(110,1:196)=f5;
x(111,1:196)=g5;
x(112,1:196)=h5;
x(113,1:196)=i5;
x(114,1:196)=j5;
x(115,1:196)=k5;
x(116,1:196)=l5;
x(117,1:196)=m5;
x(118,1:196)=n5;
x(119,1:196)=o5;
x(120,1:196)=p5;
x(121,1:196)=q5;
x(122,1:196)=r5;
x(123,1:196)=s5;
x(124,1:196)=t5;
```

x(125,1:196)=u5;
x(126,1:196)=v5;
x(127,1:196)=w5;
x(128,1:196)=x5;
x(129,1:196)=y5;
x(130,1:196)=z5;

x(131,1:196)=a6;
x(132,1:196)=b6;
x(133,1:196)=c6;
x(134,1:196)=d6;
x(135,1:196)=e6;
x(136,1:196)=f6;
x(137,1:196)=g6;
x(138,1:196)=h6;
x(139,1:196)=i6;
x(140,1:196)=j6;
x(141,1:196)=k6;
x(142,1:196)=l6;
x(143,1:196)=m6;
x(144,1:196)=n6;
x(145,1:196)=o6;
x(146,1:196)=p6;
x(147,1:196)=q6;
x(148,1:196)=r6;
x(149,1:196)=s6;
x(150,1:196)=t6;
x(151,1:196)=u6;
x(152,1:196)=v6;
x(153,1:196)=w6;
x(154,1:196)=x6;
x(155,1:196)=y6;
x(156,1:196)=z6;

x(157,1:196)=a7;
x(158,1:196)=b7;
x(159,1:196)=c7;
x(160,1:196)=d7;
x(161,1:196)=e7;
x(162,1:196)=f7;
x(163,1:196)=g7;
x(164,1:196)=h7;
x(165,1:196)=i7;
x(166,1:196)=j7;
x(167,1:196)=k7;
x(168,1:196)=l7;
x(169,1:196)=m7;
x(170,1:196)=n7;
x(171,1:196)=o7;
x(172,1:196)=p7;
x(173,1:196)=q7;
x(174,1:196)=r7;
x(175,1:196)=s7;
x(176,1:196)=t7;
x(177,1:196)=u7;
x(178,1:196)=v7;
x(179,1:196)=w7;
x(180,1:196)=x7;
x(181,1:196)=y7;
x(182,1:196)=z7;

x(183,1:196)=a8;
x(184,1:196)=b8;
x(185,1:196)=c8;
x(186,1:196)=d8;
x(187,1:196)=e8;
x(188,1:196)=f8;
x(189,1:196)=g8;
x(190,1:196)=h8;
x(191,1:196)=i8;
x(192,1:196)=j8;
x(193,1:196)=k8;
x(194,1:196)=l8;
x(195,1:196)=m8;
x(196,1:196)=n8;
x(197,1:196)=o8;
x(198,1:196)=p8;
x(199,1:196)=q8;
x(200,1:196)=r8;
x(201,1:196)=s8;
x(201,1:196)=t8;
x(203,1:196)=u8;
x(204,1:196)=v8;
x(205,1:196)=w8;
x(206,1:196)=x8;
x(207,1:196)=y8;
x(208,1:196)=z8;

x(209,1:196)=a9;
x(210,1:196)=b9;
x(211,1:196)=c9;
x(212,1:196)=d9;
x(213,1:196)=e9;
x(214,1:196)=f9;
x(215,1:196)=g9;
x(216,1:196)=h9;
x(217,1:196)=i9;
x(218,1:196)=j9;
x(219,1:196)=k9;
x(220,1:196)=l9;
x(221,1:196)=m9;
x(222,1:196)=n9;
x(223,1:196)=o9;
x(224,1:196)=p9;
x(225,1:196)=q9;
x(226,1:196)=r9;
x(227,1:196)=s9;
x(228,1:196)=t9;
x(229,1:196)=u9;
x(230,1:196)=v9;
x(231,1:196)=w9;
x(232,1:196)=x9;
x(233,1:196)=y9;
x(234,1:196)=z9;

x(235,1:196)=a10;
x(236,1:196)=b10;
x(237,1:196)=c10;
x(238,1:196)=d10;
x(239,1:196)=e10;
x(240,1:196)=f10;
x(241,1:196)=g10;
x(242,1:196)=h10;
x(243,1:196)=i10;
x(244,1:196)=j10;
x(245,1:196)=k10;
x(246,1:196)=l10;
x(247,1:196)=m10;
x(248,1:196)=n10;
x(249,1:196)=o10;
x(250,1:196)=p10;
x(251,1:196)=q10;
x(252,1:196)=r10;
x(253,1:196)=s10;
x(254,1:196)=t10;
x(255,1:196)=u10;
x(256,1:196)=v10;
x(257,1:196)=w10;
x(258,1:196)=x10;
x(259,1:196)=y10;
x(260,1:196)=z10;

```
%Proses Bipolar
for k=1:260
   for i=1:196
      if x(k,i)>0
         x(k,i)=1;
      else x(k,i)=-1;
      end
   end
end

a1=x(1,1:196);
b1=x(2,1:196);
c1=x(3,1:196);
d1=x(4,1:196);
e1=x(5,1:196);
f1=x(6,1:196);
g1=x(7,1:196);
h1=x(8,1:196);
i1=x(9,1:196);
j1=x(10,1:196);
k1=x(11,1:196);
l1=x(12,1:196);
m1=x(13,1:196);
n1=x(14,1:196);
o1=x(15,1:196);
p1=x(16,1:196);
q1=x(17,1:196);
r1=x(18,1:196);
s1=x(19,1:196);
t1=x(20,1:196);
u1=x(21,1:196);
v1=x(22,1:196);
w1=x(23,1:196);
x1=x(24,1:196);
y1=x(25,1:196);
z1=x(26,1:196);

proyek=guidata(gcbo);
pilihchar=get(proyek.popup2,'value');
switch pilihchar
   case 1
pilih=get(proyek.popup1,'value');
switch pilih
   case 1

%Perhitungan Bobot
w=  c1'* c1 + l1'* l1 + o1'* o1 + c1'* c1 + k1'* k1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);
input4=input(1:14,43:56);
input4=reshape(input4,1,196);   input4=single(input4);
input5=input(1:14,57:70);
input5=reshape(input5,1,196);   input5=single(input5);

S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
           kc1=s(k);
           yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
```

```
            T(p)=0;
           else
            T(p)=1;
           end
       end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
            kc2=s(k);
            yk2=k;
         end
      end

      if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
            kc3=s(k);
            yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end


   S=input4*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc4=s(1);
```

```
    yk4=1;
       for k=2:260
          if(kc4>s(k))
            kc4=s(k);
            yk4=k;
          end
       end


       if yk4 <= 26
          huruf4=char(yk4+64);
       else
          yk4=mod(yk4,26);
          huruf4=char(64+yk4);
       end


    S=input5*w;
       for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
       end

%Proses iterasi
for j=1:1000
    T=S*w;
       for p=1:196
          if T(p)< 0
           T(p)=0;
          else
           T(p)=1;
          end
       end

    beda=0;
    for i=1:196
       beda=beda+(S(i)-T(i));
    end
       if beda>0
          S=T;
       else
          j=1000;
       end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
    er=er/196;
    s(k)=er;
end
    kc5=s(1);
    yk5=1;
       for k=2:260
          if(kc5>s(k))
            kc5=s(k);
            yk5=k;
          end
       end

       if yk5 <= 26
          huruf5=char(yk5+64);
       else
          yk5=mod(yk5,26);
          huruf5=char(64+yk5);
       end


set(proyek.edit1,'string',char([huruf1 huruf2 huruf3
huruf4 huruf5]));
set(proyek.edit1,'userdata',char([huruf1 huruf2 huruf3
huruf4 huruf5]));


    case 2
     %Perhitungan Bobot
w=  e1'* e1 + m1'* m1 + p1'* p1 + t1'* t1 + y1'* y1 ;

%Diagonal matriks dinolkan
for k=1:196
    for l=1:196
       if k==l
          w(k,l)=0;
       end
    end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);
input4=input(1:14,43:56);
input4=reshape(input4,1,196);   input4=single(input4);
input5=input(1:14,57:70);
input5=reshape(input5,1,196);   input5=single(input5);

     S=input1*w;
       for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
       end

%Proses iterasi
for j=1:1000
    T=S*w;
       for p=1:196
          if T(p)< 0
           T(p)=0;
          else
           T(p)=1;
          end
       end

    beda=0;
    for i=1:196
       beda=beda+(S(i)-T(i));
    end
       if beda>0
          S=T;
       else
          j=1000;
       end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
```

```
        er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
            kc1=s(k);
            yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
            kc2=s(k);
            yk2=k;
         end
      end

      if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
            kc3=s(k);
            yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end


   S=input4*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
```

```
            S(p)=1;
          end
       end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc4=s(1);
   yk4=1;
      for k=2:260
         if(kc4>s(k))
           kc4=s(k);
           yk4=k;
         end
      end


      if yk4 <= 26
         huruf4=char(yk4+64);
      else
         yk4=mod(yk4,26);
         huruf4=char(64+yk4);
      end


   S=input5*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc5=s(1);
   yk5=1;
      for k=2:260
         if(kc5>s(k))
           kc5=s(k);
           yk5=k;
         end
      end

      if yk5 <= 26
         huruf5=char(yk5+64);
      else
         yk5=mod(yk5,26);
         huruf5=char(64+yk5);
      end


set(proyek.edit1,'string',char([huruf1  huruf2  huruf3
huruf4 huruf5]));
set(proyek.edit1,'userdata',char([huruf1  huruf2  huruf3
huruf4 huruf5]));




   case 3
      %Perhitungan Bobot
w=  f1'* f1 + o1'* o1 + r1'* r1 + e1'* e1 + x1'* x1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);
input4=input(1:14,43:56);
input4=reshape(input4,1,196);   input4=single(input4);
```

```
input5=input(1:14,57:70);
input5=reshape(input5,1,196);   input5=single(input5);

     S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
           kc1=s(k);
           yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
        er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
           kc2=s(k);
           yk2=k;
         end
      end

     if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
```

```
        S=T;
      else
        j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
       er=er+(x(k,i)-S(i))^2;
     end
  er=er/196;
  s(k)=er;
end
  kc3=s(1);
  yk3=1;
     for k=2:260
        if(kc3>s(k))
          kc3=s(k);
          yk3=k;
        end
     end


     if yk3 <= 26
        huruf3=char(yk3+64);
     else
        yk3=mod(yk3,26);
        huruf3=char(64+yk3);
     end


  S=input4*w;
     for p=1:196
        if S(p)< 0
         S(p)=0;
        else
         S(p)=1;
        end
     end

%Proses iterasi
for j=1:1000
  T=S*w;
     for p=1:196
        if T(p)< 0
         T(p)=0;
        else
         T(p)=1;
        end
     end

  beda=0;
  for i=1:196
     beda=beda+(S(i)-T(i));
  end
     if beda>0
        S=T;
     else
        j=1000;
     end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
       er=er+(x(k,i)-S(i))^2;
     end
  er=er/196;
  s(k)=er;
end
  kc4=s(1);
  yk4=1;
     for k=2:260
        if(kc4>s(k))
          kc4=s(k);
          yk4=k;
        end
     end


     if yk4 <= 26
        huruf4=char(yk4+64);
     else
        yk4=mod(yk4,26);
        huruf4=char(64+yk4);
     end


  S=input5*w;
     for p=1:196
        if S(p)< 0
         S(p)=0;
        else
         S(p)=1;
        end
     end

%Proses iterasi
for j=1:1000
  T=S*w;
     for p=1:196
        if T(p)< 0
         T(p)=0;
        else
         T(p)=1;
        end
     end

  beda=0;
  for i=1:196
     beda=beda+(S(i)-T(i));
  end
     if beda>0
        S=T;
     else
        j=1000;
     end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
       er=er+(x(k,i)-S(i))^2;
     end
  er=er/196;
  s(k)=er;
end
  kc5=s(1);
  yk5=1;
     for k=2:260
        if(kc5>s(k))
          kc5=s(k);
          yk5=k;
        end
     end

     if yk5 <= 26
        huruf5=char(yk5+64);
```

```
      else
         yk5=mod(yk5,26);
         huruf5=char(64+yk5);
      end


         set(proyek.edit1,'string',char([huruf1      huruf2
huruf3 huruf4 huruf5]));
         set(proyek.edit1,'userdata',char([huruf1    huruf2
huruf3 huruf4 huruf5]));


   case 4
      %Perhitungan Bobot
w=  j1'* j1 + e1'* e1 + s1'* s1 + u1'* u1 + s1'* s1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);
input4=input(1:14,43:56);
input4=reshape(input4,1,196);   input4=single(input4);
input5=input(1:14,57:70);
input5=reshape(input5,1,196);   input5=single(input5);

    S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
           kc1=s(k);
           yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
           kc2=s(k);
           yk2=k;
```

```
        end
      end

     if yk2 <= 26
        huruf2=char(yk2+64);
      else
        yk2=mod(yk2,26);
        huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
        if S(p)< 0
         S(p)=0;
        else
         S(p)=1;
        end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
        if T(p)< 0
         T(p)=0;
        else
         T(p)=1;
        end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
        S=T;
      else
        j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
       er=er+(x(k,i)-S(i))^2;
     end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
        if(kc3>s(k))
          kc3=s(k);
          yk3=k;
        end
      end


      if yk3 <= 26
        huruf3=char(yk3+64);
      else
        yk3=mod(yk3,26);
        huruf3=char(64+yk3);
      end


   S=input4*w;
      for p=1:196
        if S(p)< 0
         S(p)=0;
        else
         S(p)=1;
        end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
        if T(p)< 0
         T(p)=0;
        else
         T(p)=1;
        end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
        S=T;
      else
        j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
       er=er+(x(k,i)-S(i))^2;
     end
   er=er/196;
   s(k)=er;
end
   kc4=s(1);
   yk4=1;
      for k=2:260
        if(kc4>s(k))
          kc4=s(k);
          yk4=k;
        end
      end


      if yk4 <= 26
        huruf4=char(yk4+64);
      else
        yk4=mod(yk4,26);
        huruf4=char(64+yk4);
      end


   S=input5*w;
      for p=1:196
        if S(p)< 0
         S(p)=0;
        else
         S(p)=1;
        end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
        if T(p)< 0
         T(p)=0;
```

```
            else
             T(p)=1;
            end
        end

    beda=0;
    for i=1:196
        beda=beda+(S(i)-T(i));
    end
        if beda>0
            S=T;
        else
            j=1000;
        end
end

%Perbandingan bit-bit biner
for k=1:260
        er=0;
        for i=1:196
            er=er+(x(k,i)-S(i))^2;
        end
    er=er/196;
    s(k)=er;
end
    kc5=s(1);
    yk5=1;
        for k=2:260
            if(kc5>s(k))
              kc5=s(k);
              yk5=k;
            end
        end

        if yk5 <= 26
            huruf5=char(yk5+64);
        else
            yk5=mod(yk5,26);
            huruf5=char(64+yk5);
        end



set(proyek.edit1,'string',char([huruf1    huruf2    huruf3
huruf4 huruf5]));
set(proyek.edit1,'userdata',char([huruf1   huruf2   huruf3
huruf4 huruf5]));


    case 5
        %Perhitungan Bobot
w=  l1'* l1 + o1'* o1 + v1'* v1 + e1'* e1 + s1'* s1 ;

%Diagonal matriks dinolkan
for k=1:196
    for l=1:196
        if k==l
            w(k,l)=0;
        end
    end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);
input4=input(1:14,43:56);
input4=reshape(input4,1,196);   input4=single(input4);
input5=input(1:14,57:70);
input5=reshape(input5,1,196);   input5=single(input5);

     S=input1*w;
       for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
       end

%Proses iterasi
for j=1:1000
    T=S*w;
       for p=1:196
          if T(p)< 0
           T(p)=0;
          else
           T(p)=1;
          end
       end

    beda=0;
    for i=1:196
        beda=beda+(S(i)-T(i));
    end
        if beda>0
            S=T;
        else
            j=1000;
        end
end

%Perbandingan bit-bit biner
for k=1:260
        er=0;
        for i=1:196
            er=er+(x(k,i)-T(i))^2;
        end
    er=er/196;
    s(k)=er;
end
    kc1=s(1);
    yk1=1;
        for k=2:260
            if(kc1>s(k))
              kc1=s(k);
              yk1=k;
            end
        end

        if yk1 <= 26
            huruf1=char(yk1+64);
        else
            yk1=mod(yk1,26);
            huruf1=char(64+yk1);
        end


     S=input2*w;
       for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
       end
```

```
%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
           kc2=s(k);
           yk2=k;
         end
      end

     if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
           kc3=s(k);
           yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end


   S=input4*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
```

```
      end
   er=er/196;
   s(k)=er;
end
   kc4=s(1);
   yk4=1;
      for k=2:260
         if(kc4>s(k))
           kc4=s(k);
           yk4=k;
         end
      end


      if yk4 <= 26
         huruf4=char(yk4+64);
      else
         yk4=mod(yk4,26);
         huruf4=char(64+yk4);
      end


   S=input5*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
        er=er+(x(k,i)-S(i))^2;
     end
   er=er/196;
   s(k)=er;
end
   kc5=s(1);
   yk5=1;
      for k=2:260
         if(kc5>s(k))
           kc5=s(k);
           yk5=k;
         end
      end

      if yk5 <= 26
         huruf5=char(yk5+64);
      else
         yk5=mod(yk5,26);
         huruf5=char(64+yk5);
      end


set(proyek.edit1,'string',char([huruf1 huruf2 huruf3
huruf4 huruf5]));
set(proyek.edit1,'userdata',char([huruf1 huruf2 huruf3
huruf4 huruf5]));


   case 6
      %Perhitungan Bobot
w=  n1'* n1 + o1'* o1 + k1'* k1 + i1'* i1 + a1'* a1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);
input4=input(1:14,43:56);
input4=reshape(input4,1,196);   input4=single(input4);
input5=input(1:14,57:70);
input5=reshape(input5,1,196);   input5=single(input5);

     S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end
```

```
%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
            kc1=s(k);
            yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
            kc2=s(k);
            yk2=k;
         end
      end

   if yk2 <= 26
      huruf2=char(yk2+64);
   else
      yk2=mod(yk2,26);
      huruf2=char(64+yk2);
   end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
            kc3=s(k);
            yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end
```

```
   S=input4*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc4=s(1);
   yk4=1;
      for k=2:260
         if(kc4>s(k))
           kc4=s(k);
           yk4=k;
         end
      end


      if yk4 <= 26
         huruf4=char(yk4+64);
      else
         yk4=mod(yk4,26);
         huruf4=char(64+yk4);
      end


   S=input5*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc5=s(1);
   yk5=1;
      for k=2:260
         if(kc5>s(k))
           kc5=s(k);
           yk5=k;
         end
      end

      if yk5 <= 26
         huruf5=char(yk5+64);
      else
         yk5=mod(yk5,26);
         huruf5=char(64+yk5);
      end


set(proyek.edit1,'string',char([huruf1  huruf2  huruf3
huruf4 huruf5]));
set(proyek.edit1,'userdata',char([huruf1  huruf2  huruf3
huruf4 huruf5]));


   case 7
      %Perhitungan Bobot
w=  q1'* q1 + u1'* u1 + e1'* e1 + e1'* e1 + n1'* n1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
```

```
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);
input4=input(1:14,43:56);
input4=reshape(input4,1,196);   input4=single(input4);
input5=input(1:14,57:70);
input5=reshape(input5,1,196);   input5=single(input5);

     S=input1*w;
       for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
       end

%Proses iterasi
for j=1:1000
   T=S*w;
       for p=1:196
          if T(p)< 0
           T(p)=0;
          else
           T(p)=1;
          end
       end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
            kc1=s(k);
            yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
       for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
       end

%Proses Iterasi
for j=1:1000
   T=S*w;
       for p=1:196
          if T(p)< 0
           T(p)=0;
          else
           T(p)=1;
          end
       end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
            kc2=s(k);
            yk2=k;
         end
      end

      if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
```

```
    for i=1:196
       beda=beda+(S(i)-T(i));
    end
       if beda>0
          S=T;
       else
          j=1000;
       end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
           kc3=s(k);
           yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end


   S=input4*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc4=s(1);
   yk4=1;
      for k=2:260
         if(kc4>s(k))
           kc4=s(k);
           yk4=k;
         end
      end


      if yk4 <= 26
         huruf4=char(yk4+64);
      else
         yk4=mod(yk4,26);
         huruf4=char(64+yk4);
      end


   S=input5*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc5=s(1);
   yk5=1;
      for k=2:260
         if(kc5>s(k))
           kc5=s(k);
           yk5=k;
         end
```

```
        end

        if yk5 <= 26
           huruf5=char(yk5+64);
        else
           yk5=mod(yk5,26);
           huruf5=char(64+yk5);
        end


set(proyek.edit1,'string',char([huruf1   huruf2   huruf3
huruf4 huruf5]));
set(proyek.edit1,'userdata',char([huruf1   huruf2   huruf3
huruf4 huruf5]));


    case 8
      %Perhitungan Bobot
w=  r1'* r1 + i1'* i1 + g1'* g1 + h1'* h1 + t1'* t1 ;

%Diagonal matriks dinolkan
for k=1:196
    for l=1:196
        if k==l
           w(k,l)=0;
        end
    end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);
input4=input(1:14,43:56);
input4=reshape(input4,1,196);   input4=single(input4);
input5=input(1:14,57:70);
input5=reshape(input5,1,196);   input5=single(input5);

      S=input1*w;
        for p=1:196
           if S(p)< 0
            S(p)=0;
           else
            S(p)=1;
           end
        end

%Proses iterasi
for j=1:1000
    T=S*w;
        for p=1:196
           if T(p)< 0
            T(p)=0;
           else
            T(p)=1;
           end
        end

    beda=0;
    for i=1:196
        beda=beda+(S(i)-T(i));
    end
        if beda>0
           S=T;
        else
           j=1000;
        end
end

%Perbandingan bit-bit biner
for k=1:260
        er=0;
        for i=1:196
           er=er+(x(k,i)-T(i))^2;
        end
    er=er/196;
    s(k)=er;
end
    kc1=s(1);
    yk1=1;
        for k=2:260
           if(kc1>s(k))
             kc1=s(k);
             yk1=k;
           end
        end

        if yk1 <= 26
           huruf1=char(yk1+64);
        else
           yk1=mod(yk1,26);
           huruf1=char(64+yk1);
        end


      S=input2*w;
        for p=1:196
           if S(p)< 0
            S(p)=0;
           else
            S(p)=1;
           end
        end

%Proses Iterasi
for j=1:1000
    T=S*w;
        for p=1:196
           if T(p)< 0
            T(p)=0;
           else
            T(p)=1;
           end
        end

    beda=0;
    for i=1:196
        beda=beda+(S(i)-T(i));
    end
        if beda>0
           S=T;
        else
           j=1000;
        end
end

%Perbandingan bit-bit biner
for k=1:260
        er=0;
        for i=1:196
           er=er+(x(k,i)-S(i))^2;
        end
    er=er/196;
    s(k)=er;
end
    kc2=s(1);
    yk2=1;
```

```
      for k=2:260
         if(kc2>s(k))
            kc2=s(k);
            yk2=k;
         end
      end

     if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
        er=er+(x(k,i)-S(i))^2;
     end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
            kc3=s(k);
            yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end


   S=input4*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
        er=er+(x(k,i)-S(i))^2;
     end
   er=er/196;
   s(k)=er;
end
   kc4=s(1);
   yk4=1;
      for k=2:260
         if(kc4>s(k))
            kc4=s(k);
            yk4=k;
         end
      end


      if yk4 <= 26
         huruf4=char(yk4+64);
      else
         yk4=mod(yk4,26);
         huruf4=char(64+yk4);
      end


   S=input5*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
```

```
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc5=s(1);
   yk5=1;
      for k=2:260
         if(kc5>s(k))
           kc5=s(k);
           yk5=k;
         end
      end

      if yk5 <= 26
         huruf5=char(yk5+64);
      else
         yk5=mod(yk5,26);
         huruf5=char(64+yk5);
      end


set(proyek.edit1,'string',char([huruf1 huruf2 huruf3
huruf4                                          huruf5]));
set(proyek.edit1,'userdata',char([huruf1 huruf2 huruf3
huruf4 huruf5]));


   case 9
      %Perhitungan Bobot
w=  v1'* v1 + e1'* e1 + g1'* g1 + a1'* a1 + s1'* s1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);
input4=input(1:14,43:56);
input4=reshape(input4,1,196);   input4=single(input4);
input5=input(1:14,57:70);
input5=reshape(input5,1,196);   input5=single(input5);

    S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
           kc1=s(k);
           yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
```

```
            S(p)=1;
          end
       end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
           kc2=s(k);
           yk2=k;
         end
      end

     if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
        er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
           kc3=s(k);
           yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end


   S=input4*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
```

```
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc4=s(1);
   yk4=1;
      for k=2:260
         if(kc4>s(k))
           kc4=s(k);
           yk4=k;
         end
      end


      if yk4 <= 26
         huruf4=char(yk4+64);
      else
         yk4=mod(yk4,26);
         huruf4=char(64+yk4);
      end


   S=input5*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc5=s(1);
   yk5=1;
      for k=2:260
         if(kc5>s(k))
           kc5=s(k);
           yk5=k;
         end
      end

      if yk5 <= 26
         huruf5=char(yk5+64);
      else
         yk5=mod(yk5,26);
         huruf5=char(64+yk5);
      end


set(proyek.edit1,'string',char([huruf1 huruf2 huruf3
huruf4 huruf5]));
set(proyek.edit1,'userdata',char([huruf1 huruf2 huruf3
huruf4 huruf5]));


   case 10
      %Perhitungan Bobot
w=  w1'* w1 + a1'* a1 + h1'* h1 + y1'* y1 + u1'* u1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);
input4=input(1:14,43:56);
input4=reshape(input4,1,196);   input4=single(input4);
input5=input(1:14,57:70);
input5=reshape(input5,1,196);   input5=single(input5);

    S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
```

```
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
            kc1=s(k);
            yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
            kc2=s(k);
            yk2=k;
         end
      end

     if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
            kc3=s(k);
            yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
```

```
        huruf3=char(64+yk3);
    end


  S=input4*w;
    for p=1:196
      if S(p)< 0
       S(p)=0;
      else
       S(p)=1;
      end
    end

%Proses iterasi
for j=1:1000
  T=S*w;
    for p=1:196
      if T(p)< 0
       T(p)=0;
      else
       T(p)=1;
      end
    end

  beda=0;
  for i=1:196
    beda=beda+(S(i)-T(i));
  end
    if beda>0
      S=T;
    else
      j=1000;
    end
end

%Perbandingan bit-bit biner
for k=1:260
    er=0;
    for i=1:196
      er=er+(x(k,i)-S(i))^2;
    end
  er=er/196;
  s(k)=er;
end
  kc4=s(1);
  yk4=1;
    for k=2:260
      if(kc4>s(k))
        kc4=s(k);
        yk4=k;
      end
    end


    if yk4 <= 26
      huruf4=char(yk4+64);
    else
      yk4=mod(yk4,26);
      huruf4=char(64+yk4);
    end


  S=input5*w;
    for p=1:196
      if S(p)< 0
       S(p)=0;
      else
       S(p)=1;
      end
    end
```

```
%Proses iterasi
for j=1:1000
  T=S*w;
    for p=1:196
      if T(p)< 0
       T(p)=0;
      else
       T(p)=1;
      end
    end

  beda=0;
  for i=1:196
    beda=beda+(S(i)-T(i));
  end
    if beda>0
      S=T;
    else
      j=1000;
    end
end

%Perbandingan bit-bit biner
for k=1:260
    er=0;
    for i=1:196
      er=er+(x(k,i)-S(i))^2;
    end
  er=er/196;
  s(k)=er;
end
  kc5=s(1);
  yk5=1;
    for k=2:260
      if(kc5>s(k))
        kc5=s(k);
        yk5=k;
      end
    end

    if yk5 <= 26
      huruf5=char(yk5+64);
    else
      yk5=mod(yk5,26);
      huruf5=char(64+yk5);
    end


set(proyek.edit1,'string',char([huruf1 huruf2 huruf3
huruf4 huruf5]));
set(proyek.edit1,'userdata',char([huruf1 huruf2 huruf3
huruf4 huruf5]));




  case 11
    %Perhitungan Bobot
w=  z1'* z1 + e1'* e1 + b1'* b1 + r1'* r1 + a1'* a1 ;

%Diagonal matriks dinolkan
for k=1:196
  for l=1:196
    if k==l
      w(k,l)=0;
    end
  end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');
```

```
input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);
input4=input(1:14,43:56);
input4=reshape(input4,1,196);   input4=single(input4);
input5=input(1:14,57:70);
input5=reshape(input5,1,196);   input5=single(input5);

     S=input1*w;
      for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
          if T(p)< 0
           T(p)=0;
          else
           T(p)=1;
          end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
          S=T;
      else
          j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
          if(kc1>s(k))
            kc1=s(k);
            yk1=k;
          end
      end

      if yk1 <= 26
          huruf1=char(yk1+64);
      else
          yk1=mod(yk1,26);
          huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
          if T(p)< 0
           T(p)=0;
          else
           T(p)=1;
          end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
          S=T;
      else
          j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
          if(kc2>s(k))
            kc2=s(k);
            yk2=k;
          end
      end

      if yk2 <= 26
          huruf2=char(yk2+64);
      else
          yk2=mod(yk2,26);
          huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
          if T(p)< 0
           T(p)=0;
          else
```

```
            T(p)=1;
          end
        end

    beda=0;
    for i=1:196
       beda=beda+(S(i)-T(i));
    end
       if beda>0
          S=T;
       else
          j=1000;
       end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
    er=er/196;
    s(k)=er;
end
    kc3=s(1);
    yk3=1;
       for k=2:260
          if(kc3>s(k))
            kc3=s(k);
            yk3=k;
          end
       end


       if yk3 <= 26
          huruf3=char(yk3+64);
       else
          yk3=mod(yk3,26);
          huruf3=char(64+yk3);
       end


    S=input4*w;
       for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
       end

%Proses iterasi
for j=1:1000
    T=S*w;
       for p=1:196
          if T(p)< 0
           T(p)=0;
          else
           T(p)=1;
          end
       end

    beda=0;
    for i=1:196
       beda=beda+(S(i)-T(i));
    end
       if beda>0
          S=T;
       else
          j=1000;
       end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
    er=er/196;
    s(k)=er;
end
    kc4=s(1);
    yk4=1;
       for k=2:260
          if(kc4>s(k))
            kc4=s(k);
            yk4=k;
          end
       end


       if yk4 <= 26
          huruf4=char(yk4+64);
       else
          yk4=mod(yk4,26);
          huruf4=char(64+yk4);
       end


    S=input5*w;
       for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
       end

%Proses iterasi
for j=1:1000
    T=S*w;
       for p=1:196
          if T(p)< 0
           T(p)=0;
          else
           T(p)=1;
          end
       end

    beda=0;
    for i=1:196
       beda=beda+(S(i)-T(i));
    end
       if beda>0
          S=T;
       else
          j=1000;
       end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
    er=er/196;
    s(k)=er;
end
    kc5=s(1);
    yk5=1;
```

```
      for k=2:260
         if(kc5>s(k))
            kc5=s(k);
            yk5=k;
         end
      end

      if yk5 <= 26
         huruf5=char(yk5+64);
      else
         yk5=mod(yk5,26);
         huruf5=char(64+yk5);
      end


set(proyek.edit1,'string',char([huruf1 huruf2 huruf3
huruf4 huruf5]));
set(proyek.edit1,'userdata',char([huruf1 huruf2 huruf3
huruf4 huruf5]));
end


   case 2
pilih=get(proyek.popup3,'value');
switch pilih
   case 1

%Perhitungan Bobot
w=  b1'* b1 + e1'* e1 + d1'* d1  ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);

     S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
            kc1=s(k);
            yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
```

```
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
           kc2=s(k);
           yk2=k;
         end
      end

     if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
           kc3=s(k);
           yk3=k;
         end
      end
      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end

set(proyek.edit1,'string',char([huruf1 huruf2 huruf3]));
set(proyek.edit1,'userdata',char([huruf1                huruf2
huruf3]));


   case 2
     %Perhitungan Bobot
w=  c1'* c1 + a1'* a1 + r1'* r1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);

     S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
```

```
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
           kc1=s(k);
           yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
        er=er+(x(k,i)-S(i))^2;
     end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
           kc2=s(k);
           yk2=k;
         end
      end

     if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
        er=er+(x(k,i)-S(i))^2;
     end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
           kc3=s(k);
           yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end

set(proyek.edit1,'string',char([huruf1 huruf2 huruf3]));
set(proyek.edit1,'userdata',char([huruf1 huruf2
huruf3]));


   case 3
      %Perhitungan Bobot
```

```
w=  f1'* f1 + q1'* q1 + m1'* m1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);

    S=input1*w;
     for p=1:196
        if S(p)< 0
         S(p)=0;
        else
         S(p)=1;
        end
     end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
        er=er+(x(k,i)-T(i))^2;
     end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
           kc1=s(k);
           yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
        er=er+(x(k,i)-S(i))^2;
     end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
           kc2=s(k);
           yk2=k;
         end
      end

      if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
```

```
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
           kc3=s(k);
           yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end

set(proyek.edit1,'string',char([huruf1 huruf2 huruf3]));
set(proyek.edit1,'userdata',char([huruf1                huruf2
huruf3]));


   case 4
      %Perhitungan Bobot
w=  h1'* h1 + o1'* o1 + w1'* w1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');
input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);


    S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
           kc1=s(k);
           yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
```

```
            end
        end

%Proses Iterasi
for j=1:1000
    T=S*w;
        for p=1:196
            if T(p)< 0
             T(p)=0;
            else
             T(p)=1;
            end
        end

    beda=0;
    for i=1:196
        beda=beda+(S(i)-T(i));
    end
        if beda>0
            S=T;
        else
            j=1000;
        end
end

%Perbandingan bit-bit biner
for k=1:260
       er=0;
       for i=1:196
          er=er+(x(k,i)-S(i))^2;
       end
    er=er/196;
    s(k)=er;
end
    kc2=s(1);
    yk2=1;
        for k=2:260
            if(kc2>s(k))
               kc2=s(k);
               yk2=k;
            end
        end

       if yk2 <= 26
            huruf2=char(yk2+64);
        else
            yk2=mod(yk2,26);
            huruf2=char(64+yk2);
        end


    S=input3*w;
        for p=1:196
            if S(p)< 0
             S(p)=0;
            else
             S(p)=1;
            end
        end

%Proses iterasi
for j=1:1000
    T=S*w;
        for p=1:196
            if T(p)< 0
             T(p)=0;
            else
             T(p)=1;
            end
        end

    beda=0;
    for i=1:196
        beda=beda+(S(i)-T(i));
    end
        if beda>0
            S=T;
        else
            j=1000;
        end
end

%Perbandingan bit-bit biner
for k=1:260
       er=0;
       for i=1:196
          er=er+(x(k,i)-S(i))^2;
       end
    er=er/196;
    s(k)=er;
end
    kc3=s(1);
    yk3=1;
        for k=2:260
            if(kc3>s(k))
               kc3=s(k);
               yk3=k;
            end
        end


        if yk3 <= 26
            huruf3=char(yk3+64);
        else
            yk3=mod(yk3,26);
            huruf3=char(64+yk3);
        end

set(proyek.edit1,'string',char([huruf1 huruf2 huruf3]));
set(proyek.edit1,'userdata',char([huruf1                huruf2
huruf3]));


    case 5
        %Perhitungan Bobot
w=  j1'* j1 + o1'* o1 + y1'* y1 ;

%Diagonal matriks dinolkan
for k=1:196
    for l=1:196
        if k==l
            w(k,l)=0;
        end
    end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);

      S=input1*w;
        for p=1:196
            if S(p)< 0
             S(p)=0;
            else
             S(p)=1;
```

```
        end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
        er=er+(x(k,i)-T(i))^2;
     end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
            kc1=s(k);
            yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
     for i=1:196
        er=er+(x(k,i)-S(i))^2;
     end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
            kc2=s(k);
            yk2=k;
         end
      end

     if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
     er=0;
```

```
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
            kc3=s(k);
            yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end

set(proyek.edit1,'string',char([huruf1  huruf2  huruf3]));
set(proyek.edit1,'userdata',char([huruf1              huruf2
huruf3]));


   case 6
      %Perhitungan Bobot
w=  k1'* k1 + z1'* z1 + v1'* v1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);

    S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
            kc1=s(k);
            yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
```

```
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
            kc2=s(k);
            yk2=k;
         end
      end

      if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
            kc3=s(k);
            yk3=k;
         end
      end

      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end

set(proyek.edit1,'string',char([huruf1 huruf2 huruf3]));
set(proyek.edit1,'userdata',char([huruf1 huruf2
huruf3]));


   case 7
      %Perhitungan Bobot
w=  l1'* l1 + u1'* u1 + x1'* x1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);

    S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
```

```
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
            kc1=s(k);
            yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
            kc2=s(k);
            yk2=k;
         end
      end

      if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
            kc3=s(k);
            yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end

set(proyek.edit1,'string',char([huruf1 huruf2 huruf3]));
set(proyek.edit1,'userdata',char([huruf1 huruf2
huruf3]));
```

```
   case 8
     %Perhitungan Bobot
w=  p1'* p1 + i1'* i1 + g1'* g1;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);

     S=input1*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
            kc1=s(k);
            yk1=k;
         end
      end
      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
            kc2=s(k);
            yk2=k;
         end
      end

     if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
```

```
            S(p)=1;
          end
       end

%Proses iterasi
for j=1:1000
   T=S*w;
       for p=1:196
          if T(p)< 0
           T(p)=0;
          else
           T(p)=1;
          end
       end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
           kc3=s(k);
           yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end

set(proyek.edit1,'string',char([huruf1 huruf2 huruf3]));
set(proyek.edit1,'userdata',char([huruf1                huruf2
huruf3]));


   case 9
      %Perhitungan Bobot
w=  s1'* s1 + u1'* u1 + n1'* n1 ;

%Diagonal matriks dinolkan
for k=1:196
   for l=1:196
      if k==l
         w(k,l)=0;
      end
   end
end

proyek=guidata(gcbo);
```

```
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);

     S=input1*w;
       for p=1:196
          if S(p)< 0
           S(p)=0;
          else
           S(p)=1;
          end
       end

%Proses iterasi
for j=1:1000
   T=S*w;
       for p=1:196
          if T(p)< 0
           T(p)=0;
          else
           T(p)=1;
          end
       end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
           kc1=s(k);
           yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
```

```
            S(p)=1;
           end
        end

%Proses Iterasi
for j=1:1000
    T=S*w;
        for p=1:196
            if T(p)< 0
             T(p)=0;
            else
             T(p)=1;
            end
        end

    beda=0;
    for i=1:196
        beda=beda+(S(i)-T(i));
    end
        if beda>0
            S=T;
        else
            j=1000;
        end
end

%Perbandingan bit-bit biner
for k=1:260
       er=0;
       for i=1:196
          er=er+(x(k,i)-S(i))^2;
       end
    er=er/196;
    s(k)=er;
end
    kc2=s(1);
    yk2=1;
        for k=2:260
            if(kc2>s(k))
              kc2=s(k);
              yk2=k;
            end
        end

       if yk2 <= 26
            huruf2=char(yk2+64);
       else
            yk2=mod(yk2,26);
            huruf2=char(64+yk2);
       end


    S=input3*w;
        for p=1:196
            if S(p)< 0
             S(p)=0;
            else
             S(p)=1;
            end
        end

%Proses iterasi
for j=1:1000
    T=S*w;
        for p=1:196
            if T(p)< 0
             T(p)=0;
            else
             T(p)=1;
            end
        end

    beda=0;
    for i=1:196
        beda=beda+(S(i)-T(i));
    end
        if beda>0
            S=T;
        else
            j=1000;
        end
end

%Perbandingan bit-bit biner
for k=1:260
       er=0;
       for i=1:196
          er=er+(x(k,i)-S(i))^2;
       end
    er=er/196;
    s(k)=er;
end
    kc3=s(1);
    yk3=1;
        for k=2:260
            if(kc3>s(k))
              kc3=s(k);
              yk3=k;
            end
        end



        if yk3 <= 26
            huruf3=char(yk3+64);
        else
            yk3=mod(yk3,26);
            huruf3=char(64+yk3);
        end

set(proyek.edit1,'string',char([huruf1  huruf2  huruf3]));
set(proyek.edit1,'userdata',char([huruf1              huruf2
huruf3]));


    case 10
        %Perhitungan Bobot
w=  t1'* t1 + e1'* e1 + a1'* a1 ;

%Diagonal matriks dinolkan
for k=1:196
    for l=1:196
        if k==l
            w(k,l)=0;
        end
    end
end

proyek=guidata(gcbo);
input=get(proyek.gbr,'userdata');

input1=input(1:14,1:14);
input1=reshape(input1,1,196);   input1=single(input1);
input2=input(1:14,15:28);
input2=reshape(input2,1,196);   input2=single(input2);
input3=input(1:14,29:42);
input3=reshape(input3,1,196);   input3=single(input3);

      S=input1*w;
        for p=1:196
            if S(p)< 0
             S(p)=0;
            else
```

```
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-T(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc1=s(1);
   yk1=1;
      for k=2:260
         if(kc1>s(k))
           kc1=s(k);
           yk1=k;
         end
      end

      if yk1 <= 26
         huruf1=char(yk1+64);
      else
         yk1=mod(yk1,26);
         huruf1=char(64+yk1);
      end


    S=input2*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses Iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc2=s(1);
   yk2=1;
      for k=2:260
         if(kc2>s(k))
           kc2=s(k);
           yk2=k;
         end
      end

      if yk2 <= 26
         huruf2=char(yk2+64);
      else
         yk2=mod(yk2,26);
         huruf2=char(64+yk2);
      end


   S=input3*w;
      for p=1:196
         if S(p)< 0
          S(p)=0;
         else
          S(p)=1;
         end
      end

%Proses iterasi
for j=1:1000
   T=S*w;
      for p=1:196
         if T(p)< 0
          T(p)=0;
         else
          T(p)=1;
         end
      end

   beda=0;
   for i=1:196
      beda=beda+(S(i)-T(i));
   end
      if beda>0
         S=T;
      else
         j=1000;
      end
end

%Perbandingan bit-bit biner
for k=1:260
```

```
      er=0;
      for i=1:196
         er=er+(x(k,i)-S(i))^2;
      end
   er=er/196;
   s(k)=er;
end
   kc3=s(1);
   yk3=1;
      for k=2:260
         if(kc3>s(k))
           kc3=s(k);
           yk3=k;
         end
      end


      if yk3 <= 26
         huruf3=char(yk3+64);
      else
         yk3=mod(yk3,26);
         huruf3=char(64+yk3);
      end

set(proyek.edit1,'string',char([huruf1 huruf2 huruf3]));
set(proyek.edit1,'userdata',char([huruf1 huruf2
huruf3]));
end
end


% --- Executes on button press in btnklr.
function btnklr_Callback(hObject, eventdata, handles)
% hObject    handle to btnklr (see GCBO)
% eventdata  reserved - to be defined in a future version
of MATLAB
% handles    structure with handles and user data (see
GUIDATA)
close;

function edit1_Callback(hObject, eventdata, handles)
% hObject    handle to edit1 (see GCBO)
% eventdata  reserved - to be defined in a future version
of MATLAB
% handles    structure with handles and user data (see
GUIDATA)

% Hints: get(hObject,'String') returns contents of edit1
as text
%        str2double(get(hObject,'String')) returns contents
of edit1 as a double


% --- Executes during object creation, after setting all
properties.
function edit1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit1 (see GCBO)
% eventdata  reserved - to be defined in a future version
of MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: edit controls usually have a white background
on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
   set(hObject,'BackgroundColor','white');
end

% --- Executes on selection change in popup1.
function popup1_Callback(hObject, eventdata, handles)
% hObject    handle to popup1 (see GCBO)
% eventdata  reserved - to be defined in a future version
of MATLAB
% handles    structure with handles and user data (see
GUIDATA)

% Hints: contents = get(hObject,'String') returns
popup1 contents as cell array
%        contents{get(hObject,'Value')} returns selected
item from popup1

% --- Executes during object creation, after setting all
properties.
function popup1_CreateFcn(hObject, eventdata,
handles)
% hObject    handle to popup1 (see GCBO)
% eventdata  reserved - to be defined in a future version
of MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: popupmenu controls usually have a white
background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
   set(hObject,'BackgroundColor','white');
end

% --- Executes on selection change in popup2.
function popup2_Callback(hObject, eventdata, handles)
% hObject    handle to popup2 (see GCBO)
% eventdata  reserved - to be defined in a future version
of MATLAB
% handles    structure with handles and user data (see
GUIDATA)

% Hints: contents = get(hObject,'String') returns
popup2 contents as cell array
%        contents{get(hObject,'Value')} returns selected
item from popup2

% --- Executes during object creation, after setting all
properties.
function popup2_CreateFcn(hObject, eventdata,
handles)
% hObject    handle to popup2 (see GCBO)
% eventdata  reserved - to be defined in a future version
of MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: popupmenu controls usually have a white
background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
   set(hObject,'BackgroundColor','white');
end

% --- Executes on selection change in popup3.
function popup3_Callback(hObject, eventdata, handles)
% hObject    handle to popup3 (see GCBO)
% eventdata  reserved - to be defined in a future version
of MATLAB
% handles    structure with handles and user data (see
GUIDATA)

% Hints: contents = get(hObject,'String') returns
popup3 contents as cell array
```

```
%        contents{get(hObject,'Value')} returns selected
item from popup3

% --- Executes during object creation, after setting all
properties.
function     popup3_CreateFcn(hObject,     eventdata,
handles)
% hObject    handle to popup3 (see GCBO)
% eventdata  reserved - to be defined in a future version
of MATLAB
% handles    empty - handles not created until after all
CreateFcns called

% Hint: popupmenu controls usually have a white
background on Windows.
%       See ISPC and COMPUTER.
if ispc && isequal(get(hObject,'BackgroundColor'),
get(0,'defaultUicontrolBackgroundColor'))
   set(hObject,'BackgroundColor','white');
end
```