LAMPIRAN A

PROGRAM MATLAB

Program Pelatihan FOCP

```
clc
clear all
load databesarm databesarm;
x=databesarm;
input=x;
%Inisialisasi Bobot
%-----------------------------------------------------------------
[baris kolom]=size(input);
bnydata=baris;
jmlinput=kolom;
clusterlayer=10;
outputlayer=10;

vweight=(0.5-(rand(clusterlayer,jmlinput)*(0.5-0)));
wweight=(0.5-(rand(clusterlayer,outputlayer)*(0.5-0)));

target=eye(clusterlayer,outputlayer);
alpha=0.8;
a=0.4;
epoch=0;
con=1;
dmin=0;
jwin=0;

while con
    for jmlbaris=1:bnydata
        for cluster=1:clusterlayer
            d(cluster)=(sum((vweight(cluster,:)-input(jmlbaris,:)).^2));
            if cluster==1
                dmin=d(cluster);
                jwin=cluster;
            end
            if (cluster>1)&&(dmin>d(cluster))
                dmin=d(cluster);
                jwin=cluster;
            end
        end
        vweight(jwin,:)=vweight(jwin,:)+(alpha*(input(jmlbaris,:)-
vweight(jwin,:)));
    end
    alpha=0.7*alpha;

    for jmlbaris=1:bnydata
        for cluster=1:clusterlayer
            d(cluster)=(sum((vweight(cluster,:)-input(jmlbaris,:)).^2));
            if cluster==1
                dmin=d(cluster);
                jwin=cluster;
            end
            if (cluster>1)&&(dmin>d(cluster))
                dmin=d(cluster);
                jwin=cluster;
            end
        end
        vweight(jwin,:)=vweight(jwin,:)+(alpha*(input(jmlbaris,:)-
vweight(jwin,:)));
        wweight(jwin,:)=wweight(jwin,:)+(a*(target(jwin,:)-wweight(jwin,:)));
    end
    wk=wweight;
    yk=wk;
```

```
    e=sum(sum((target-yk).^2));
    error=sqrt(e/(bnydata*outputlayer));
    a=0.7*a;
    if error<0.0001
        con=0;
    end
    epoch=epoch+1;
    if epoch==200
        con=0;
    end
    plot(epoch,error,'m.-');
    hold on;
    grid on;
    title('Grafik Error Terhadap Epoch');
    xlabel('Epoch');
    ylabel('Error');
end
```

Program Pengujian FOCP

```
clc
clear all
[c b]=size(x);
clusterlayer=10;
  for i2=1:c
      for cluster=1:clusterlayer
          d(cluster)=sum((vsimpan1(cluster,:)-x(i2,:)).^2);
          if cluster==1
              dmin=d(cluster);
              dwin=cluster;
          end
          if (cluster>1)&&(dmin>d(cluster))
              dmin=d(cluster);
              dwin=cluster;
          end

      end
       yk=wsimpan1(dwin,:);
       y=round(yk);
```

Program GUI Untuk Pelatihan

```
function varargout = latih_focp(varargin)
% LATIH_FOCP M-file for latih_focp.fig
%      LATIH_FOCP, by itself, creates a new LATIH_FOCP or raises the existing
%      singleton*.
%
%      H = LATIH_FOCP returns the handle to a new LATIH_FOCP or the handle to
%      the existing singleton*.
%
%      LATIH_FOCP('CALLBACK',hObject,eventData,handles,...) calls the local
%      function named CALLBACK in LATIH_FOCP.M with the given input arguments.
%
%      LATIH_FOCP('Property','Value',...) creates a new LATIH_FOCP or raises
the
%      existing singleton*.  Starting from the left, property value pairs are
%      applied to the GUI before latih_focp_OpeningFunction gets called.  An
%      unrecognized property name or invalid value makes property application
%      stop.  All inputs are passed to latih_focp_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 latih_focp

% Last Modified by GUIDE v2.5 23-Apr-2012 09:41:52

% Begin initialization code - DO NOT EDIT
gui_Singleton = 1;
gui_State = struct('gui_Name',       mfilename, ...
                   'gui_Singleton',  gui_Singleton, ...
                   'gui_OpeningFcn', @latih_focp_OpeningFcn, ...
                   'gui_OutputFcn',  @latih_focp_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 latih_focp is made visible.
function latih_focp_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 latih_focp (see VARARGIN)
% Choose default command line output for latih_focp
handles.output = hObject;

% Update handles structure
guidata(hObject, handles);
```

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


% --- Outputs from this function are returned to the command line.
function varargout = latih_focp_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 Tombol_buka.
function Tombol_buka_Callback(hObject, eventdata, handles)
% hObject    handle to Tombol_buka (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
set(handles.Tombol_buka,'Enable','off');
set(handles.pushbutton3,'Enable','on');
%Inisialisasi Bobot
%--------------------------------------------------------------------------
input=x;
[baris kolom]=size(input);
bnydata=baris;
jmlinput=kolom;
clusterlayer=10;
outputlayer=10;
vweight=(0.5-(rand(clusterlayer,jmlinput)*(0.5-0)));
wweight=(0.5-(rand(clusterlayer,outputlayer)*(0.5-0)));
target=eye(clusterlayer,outputlayer);
alpha=0.8;
a=0.4;
epoch=0;
con=1;
dmin=0;
jwin=0;
% Forward-only Counter Propagation Algorithm
% -------------------------------------------------------------------------
while con
    for jmlbaris=1:bnydata
        for cluster=1:clusterlayer
            d(cluster)=(sum((vweight(cluster,:)-input(jmlbaris,:)).^2));
            if cluster==1
                dmin=d(cluster);
                jwin=cluster;
            end
            if (cluster>1)&&(dmin>d(cluster))
                dmin=d(cluster);
                jwin=cluster;
            end
        end
        vweight(jwin,:)=vweight(jwin,:)+(alpha*(input(jmlbaris,:)-
vweight(jwin,:)));
    end
    alpha=0.7*alpha;
    for jmlbaris=1:bnydata
        for cluster=1:clusterlayer
            d(cluster)=(sum((vweight(cluster,:)-input(jmlbaris,:)).^2));
            if cluster==1
                dmin=d(cluster);
```

```
                jwin=cluster;
            end
            if (cluster>1)&&(dmin>d(cluster))
                dmin=d(cluster);
                jwin=cluster;
            end
        end
        vweight(jwin,:)=vweight(jwin,:)+(alpha*(input(jmlbaris,:)-
vweight(jwin,:)));
        wweight(jwin,:)=wweight(jwin,:)+(a*(target(jwin,:)-wweight(jwin,:)));
    end
    wk=wweight;
    yk=wk;
    e=sum(sum((target-yk).^2));
    error=sqrt(e/(bnydata*outputlayer));

    a=0.7*a;
    if error<0.0001
        con=0;
    end
    epoch=epoch+1;
    if epoch==200
        con=0;
    end
    plot(epoch,error,'m.-');
    title('Grafik Error Terhadap Epoch');
    xlabel('Epoch');
    ylabel('Error');
    hold on;
    grid on;
    axes(handles.axes1);
end
set(handles.text5,'String',error);
set(handles.text6,'String',epoch);
set(handles.Tombol_buka,'Enable','on');
set(handles.pushbutton4,'Enable','on');

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

function edit2_Callback(hObject, eventdata, handles)
% hObject    handle to edit2 (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 edit2 as text
%        str2double(get(hObject,'String')) returns contents of edit2 as a
double


% --- Executes during object creation, after setting all properties.
function edit2_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit2 (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 button press in pushbutton3.
function pushbutton3_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

close


% --- Executes during object creation, after setting all properties.
function figure1_CreateFcn(hObject, eventdata, handles)
% hObject    handle to figure1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    empty - handles not created until after all CreateFcns called



% --- Executes on button press in pushbutton4.
function pushbutton4_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

fig2=openfig('uji_focp.fig');
handles=guihandles(fig2);
guidata(fig2,handles);
```

Program GUI Untuk Pengujian

```
function varargout = uji_focp(varargin)
```

```
% UJI_FOCP M-file for uji_focp.fig
%      UJI_FOCP, by itself, creates a new UJI_FOCP or raises the existing
%      singleton*.
%
%      H = UJI_FOCP returns the handle to a new UJI_FOCP or the handle to
%      the existing singleton*.
%
%      UJI_FOCP('CALLBACK',hObject,eventData,handles,...) calls the local
%      function named CALLBACK in UJI_FOCP.M with the given input arguments.
%
%      UJI_FOCP('Property','Value',...) creates a new UJI_FOCP or raises the
%      existing singleton*.  Starting from the left, property value pairs are
%      applied to the GUI before uji_focp_OpeningFunction gets called.  An
%      unrecognized property name or invalid value makes property application
%      stop.  All inputs are passed to uji_focp_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 text2 to modify the response to help uji_focp

% Last Modified by GUIDE v2.5 11-May-2012 14:58:31

% Begin initialization code - DO NOT EDIT
gui_Singleton = 1;
gui_State = struct('gui_Name',       mfilename, ...
                   'gui_Singleton',  gui_Singleton, ...
                   'gui_OpeningFcn', @uji_focp_OpeningFcn, ...
                   'gui_OutputFcn',  @uji_focp_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 uji_focp is made visible.
function uji_focp_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 uji_focp (see VARARGIN)

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

% Update handles structure
guidata(hObject, handles);

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

```
% --- Outputs from this function are returned to the command line.
function varargout = uji_focp_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 pushbutton1.
function pushbutton1_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton1 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
set(handles.pushbutton1,'Enable','off');
set(handles.pushbutton2,'Enable','on');
[nama_file1, nama_path1]=uigetfile({'*.bmp;*.jpg','File
Citra(*.bmp,*.jpg)';'*.bmp','File Bitmap(*.bmp)';
                                    '*.jpg','File jpeg(*.jpg)'; '*.*' , 'Semua
File (*.*)'},'Buka File Citra Host/Asli');
if ~isequal(nama_file1,0)
    handles.data1=imread(fullfile(nama_path1,nama_file1));
    guidata(hObject,handles);
    handles.current_data1=handles.data1;
    axes(handles.axes1);
    imshow(handles.current_data1);
else
    return;
end
set(handles.text3,'String',nama_file1);
set(handles.text4,'String',size(handles.data1,1));
set(handles.text8,'String',size(handles.data1,2));

% --- Executes on button press in pushbutton2.
function pushbutton2_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton2 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
set(handles.pushbutton2,'Enable','off');
set(handles.pushbutton3,'Enable','on');

gambar1=handles.data1;
%------------------------------------------------------------------------
%Pre-Processing
%------------------------------------------------------------------------
gambar1=rgb2gray(gambar1); %ubah dr bentuk rgb ke gray
gambar1=im2bw(gambar1,graythresh(gambar1)); %ubah dr gray ke black&white
citra1=discourser(~gambar1);
citra3=imresize(citra1,[100 100]); %resize ke bentuk 100x100
citra2=bwmorph(citra3,'thin',inf); %fungsi untuk mendapatkan skeleton
[baris kolom]=size(citra2);
axes(handles.axes2)
set(handles.text11,'String',size(citra2,1));
set(handles.text13,'String',size(citra2,2));
imshow(~citra2);

%------------------------------------------------------------------------
%Global Feature Extraction
%------------------------------------------------------------------------
%Luas Area
a=sum(sum(citra2));
```

```
%Height-to-width ratio
[height width]=size(citra1);
ratio=height/width;

%Maximum vertikal histogram
c=0;
for i=1:kolom
    for j=1:baris
        if citra2 (j,i)==1
            c=c+1;
            if j==1
                c=1;
            end
            y(j,i)=[c];
        else c=0;
        end
    end
end
[baris1 kolom1]=size(y);
maxver=0;
for k1=1:kolom1
    for l1=1:baris1
        if y(l1,k1)>maxver
            maxver=y(l1,k1);
        end
    end
end

%Maximum horizontal histogram
c2=0;
for i2=1:baris
    for j2=1:kolom
        if citra2 (i2,j2)==1
            c2=c2+1;
            if j2==1
                c2=1;
            end
            y(i2,j2)=[c2];
        else c2=0;
        end
    end
end
[baris2 kolom2]=size(y);
maxhor=0;
for k2=1:baris2
    for l2=1:kolom2
        if y(k2,l2)> maxhor
            maxhor=y(k2,l2);
        end
    end
end
```

```
%Horizontal local maxima number
[m n]=size(citra1);
for i=1:m
for j=1:1:n
  if citra1(i,j)== 1
    imax(i)=i;
  end
end
end
for i=m:-1:1
    for j=n:-1:1
        if citra1(i,j)==1
            imin(i)=j;
        end
    end
end
h=(imax-imin)+1;
[baris3 kolom3]=size(h);
horlocal=h(1,1);
for k=2:kolom3
    if h(1,k)>horlocal
        horlocal=h(1,k);
    else
        horlocal;
    end
end

%Vertical local maxima number
[m n]=size(citra1);
for i=1:n
for j=1:1:m
  if citra1(j,i)== 1
    imax2(i)=j;
  end
end
end
for i=n:-1:1
    for j=m:-1:1
        if citra1(j,i)==1
            imin2(i)=j;
        end
    end
end
v=(imax2-imin2)+1;
[baris4 kolom4]=size(v);
verticalocal=v(1,1);
for k2=2:kolom4
    if v(1,k2)>verticalocal
        verticalocal=v(1,k2);
    else
        verticalocal;
    end
end

% Centre of image
F=citra2;
[M, N] = size(F);
```

```
[x, y] = meshgrid(1:N, 1:M);
x = x(:);
y = y(:);
F = F(:);
mm00 = sum(F);
mm10 = sum(x .* F);
mm01 = sum(y .* F);
xbar = mm10 / mm00;
ybar = mm01 / mm00;

gf=[a ratio maxver maxhor horlocal verticalocal xbar ybar];
gf=(gf)./100;
save dataciri gf;

% --- Executes on button press in pushbutton3.
function pushbutton3_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton3 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
set(handles.pushbutton3,'Enable','off');
set(handles.pushbutton4,'Enable','on');

gambar1=handles.data1;
%------------------------------------------------------------------------
%Pre-Processing
%------------------------------------------------------------------------
gambar1=rgb2gray(gambar1); %ubah dr bentuk rgb ke gray
gambar1=im2bw(gambar1,graythresh(gambar1)); %ubah dr gray ke black&white
citra1=discourser(~gambar1);
citra3=imresize(citra1,[100 100]); %resize ke bentuk 100x100
citra2=bwmorph(citra3,'thin',inf); %fungsi untuk mendapatkan skeleton
%------------------------------------------------------------------------
%Moment Invariant
%------------------------------------------------------------------------
x=invmoments(citra2);
mi=[x];
save dataciri2 mi;

% --- Executes on button press in pushbutton4.
function pushbutton4_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton4 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)
load dataciri gf;
load dataciri2 mi;
input=[mi gf];
[c b]=size(input);
clusterlayer=10;
  for i=1:c
      for cluster=1:clusterlayer
          d(cluster)=sum((vfinal(cluster,:)-input(i,:)).^2);
          if cluster==1
              dmin=d(cluster);
              dwin=cluster;
          end
          if (cluster>1)&&(dmin>d(cluster))
              dmin=d(cluster);
              dwin=cluster;
          end

      end
  end
```

```
output=round(wfinal(dwin,:));
y=output;
if y== [1 0 0 0 0 0 0 0 0 0]
           y='TORANG';
       elseif y== [0 1 0 0 0 0 0 0 0 0]
           y='YANIMI';
           elseif y== [0 0 1 0 0 0 0 0 0 0]
           y='LUKAS';
           elseif y== [0 0 0 1 0 0 0 0 0 0]
           y='HOTMA';
           elseif y== [0 0 0 0 1 0 0 0 0 0]
           y='DWI';
           elseif y== [0 0 0 0 0 1 0 0 0 0]
           y='BENNY';
           elseif y== [0 0 0 0 0 0 1 0 0 0]
           y='TOGU';
           elseif y== [0 0 0 0 0 0 0 1 0 0]
           y='FEBRU';
           elseif y== [0 0 0 0 0 0 0 0 1 0]
           y='ELLA';
           elseif y== [0 0 0 0 0 0 0 0 0 1]
           y='FEBRI';
       else
           y='TIDAK DIKENALI';
       end
output=num2Str(output);
set(handles.text15,'String',output);
set(handles.text16,'String',y);
set(handles.pushbutton1,'Enable','on');
set(handles.pushbutton2,'Enable','off');
set(handles.pushbutton3,'Enable','off');


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 text2
%        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



function edit2_Callback(hObject, eventdata, handles)
% hObject    handle to edit2 (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 edit2 as text2
%        str2double(get(hObject,'String')) returns contents of edit2 as a
double


% --- Executes during object creation, after setting all properties.
function edit2_CreateFcn(hObject, eventdata, handles)
% hObject    handle to edit2 (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 button press in pushbutton5.
function pushbutton5_Callback(hObject, eventdata, handles)
% hObject    handle to pushbutton5 (see GCBO)
% eventdata  reserved - to be defined in a future version of MATLAB
% handles    structure with handles and user data (see GUIDATA)

close
```

LAMPIRAN B

TABEL HASIL PENGUJIAN

Tabel Hasil Pengujian I

NO	CITRA	OUTPUT										DIKENALI SEBAGAI	IDENTIFIKASI	
		Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10		YA	TIDAK
1	torang001	0.9982	0.0007	0.0009	0.0006	0.0007	0.0009	0.0008	0.0001	0.0007	0.0001	TORANG	√	
	torang002	0.9982	0.0007	0.0009	0.0006	0.0007	0.0009	0.0008	0.0001	0.0007	0.0001	TORANG	√	
	torang003	0.9982	0.0007	0.0009	0.0006	0.0007	0.0009	0.0008	0.0001	0.0007	0.0001	TORANG	√	
	torang004	0.9982	0.0007	0.0009	0.0006	0.0007	0.0009	0.0008	0.0001	0.0007	0.0001	TORANG	√	
2	yanimi001	0.0008	0.9985	0.0006	0.0008	0.001	0.0008	0.0007	0	0.0002	0.0008	YANIMI	√	
	yanimi002	0.0008	0.9985	0.0006	0.0008	0.001	0.0008	0.0007	0	0.0002	0.0008	YANIMI	√	
	yanimi003	0.0008	0.9985	0.0006	0.0008	0.001	0.0008	0.0007	0	0.0002	0.0008	YANIMI	√	
	yanimi004	0.0008	0.9985	0.0006	0.0008	0.001	0.0008	0.0007	0	0.0002	0.0008	YANIMI	√	
3	lukas001	0.0007	0.0007	0.9983	0.0011	0.0008	0.0008	0.0009	0.0011	0.0005	0.0007	LUKAS	√	
	lukas002	0.0007	0.0007	0.9983	0.0011	0.0008	0.0008	0.0009	0.0011	0.0005	0.0007	LUKAS	√	
	lukas003	0.0007	0.0007	0.9983	0.0011	0.0008	0.0008	0.0009	0.0011	0.0005	0.0007	LUKAS	√	
	lukas004	0.0007	0.0007	0.9983	0.0011	0.0008	0.0008	0.0009	0.0011	0.0005	0.0007	LUKAS	√	
4	hotma001	0.0002	0.0006	0.0007	0.9985	0.0004	0.0008	0.0003	0.001	0.001	0.0004	HOTMA	√	
	hotma002	0.0002	0.0006	0.0007	0.9985	0.0004	0.0008	0.0003	0.001	0.001	0.0004	HOTMA	√	
	hotma003	0.0002	0.0006	0.0007	0.9985	0.0004	0.0008	0.0003	0.001	0.001	0.0004	HOTMA	√	
	hotma004	0.0002	0.0006	0.0007	0.9985	0.0004	0.0008	0.0003	0.001	0.001	0.0004	HOTMA	√	
5	dwi001	0.0008	0.0008	0.0004	0.0005	0.9983	0.0001	0.0007	0	0.0003	0.0003	DWI	√	
	dwi002	0.0008	0.0008	0.0004	0.0005	0.9983	0.0001	0.0007	0	0.0003	0.0003	DWI	√	
	dwi003	0.0008	0.0008	0.0004	0.0005	0.9983	0.0001	0.0007	0	0.0003	0.0003	DWI	√	
	dwi004	0.0008	0.0008	0.0004	0.0005	0.9983	0.0001	0.0007	0	0.0003	0.0003	DWI	√	

NO	CITRA	OUTPUT										DIKENALI SEBAGAI	IDENTIFIKASI	
		Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10		YA	TIDAK
6	benny 001	0.0001	0.0001	0.0001	0.0001	0.0001	0.9998	0	0.0001	0.0001	0.0001	BENNY	√	
	benny 002	0.0001	0.0001	0.0001	0.0001	0.0001	0.9998	0	0.0001	0.0001	0.0001	BENNY	√	
	benny 003	0.0001	0.0001	0.0001	0.0001	0.0001	0.9998	0	0.0001	0.0001	0.0001	BENNY	√	
	benny 004	0.0001	0.0001	0.0001	0.0001	0.0001	0.9998	0	0.0001	0.0001	0.0001	BENNY	√	
7	togu001	0.0001	0.0002	0.0005	0.0009	0.0007	0.0005	0.9982	0.0004	0.0008	0.0009	TOGU	√	
	togu002	0.0001	0.0002	0.0005	0.0009	0.0007	0.0005	0.9982	0.0004	0.0008	0.0009	TOGU	√	
	togu003	0.0001	0.0002	0.0005	0.0009	0.0007	0.0005	0.9982	0.0004	0.0008	0.0009	TOGU	√	
	togu004	0.0001	0.0002	0.0005	0.0009	0.0007	0.0005	0.9982	0.0004	0.0008	0.0009	TOGU	√	
8	febru001	0.0011	0.0005	0.0005	0.0004	0.0004	0.0006	0.0005	0.9983	0.001	0.0005	FEBRU	√	
	febru002	0.0011	0.0005	0.0005	0.0004	0.0004	0.0006	0.0005	0.9983	0.001	0.0005	FEBRU	√	
	febru003	0.0011	0.0005	0.0005	0.0004	0.0004	0.0006	0.0005	0.9983	0.001	0.0005	FEBRU	√	
	febru004	0.0011	0.0005	0.0005	0.0004	0.0004	0.0006	0.0005	0.9983	0.001	0.0005	FEBRU	√	
9	ella001	0.0002	0.0004	0.0001	0.0001	0.0002	0.001	0.0005	0.0006	0.9985	0.0008	ELLA	√	
	ella002	0.0002	0.0004	0.0001	0.0001	0.0002	0.001	0.0005	0.0006	0.9985	0.0008	ELLA	√	
	ella003	0.0002	0.0004	0.0001	0.0001	0.0002	0.001	0.0005	0.0006	0.9985	0.0008	ELLA	√	
	ella004	0.0002	0.0004	0.0001	0.0001	0.0002	0.001	0.0005	0.0006	0.9985	0.0008	ELLA	√	
10	febri001	0.0045	0.0027	0.0005	0.0014	0.0024	0.0048	0.0019	0.0039	0.0029	0.9879	FEBRI	√	
	febri002	0.0045	0.0027	0.0005	0.0014	0.0024	0.0048	0.0019	0.0039	0.0029	0.9879	FEBRI	√	
	febri003	0.0045	0.0027	0.0005	0.0014	0.0024	0.0048	0.0019	0.0039	0.0029	0.9879	FEBRI	√	
	febri004	0.0045	0.0027	0.0005	0.0014	0.0024	0.0048	0.0019	0.0039	0.0029	0.9879	FEBRI	√	

Tabel Hasil Pengujian II

NO	CITRA	OUTPUT										DIKENALI SEBAGAI	IDENTIFIKASI	
		Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10		YA	TIDAK
1	torang005	0.9982	0.0007	0.0009	0.0006	0.0007	0.0009	0.0008	0.0001	0.0007	0.0001	TORANG	√	
	torang006	0.9982	0.0007	0.0009	0.0006	0.0007	0.0009	0.0008	0.0001	0.0007	0.0001	TORANG	√	
2	yanimi005	0.0008	0.9985	0.0006	0.0008	0.001	0.0008	0.0007	0	0.0002	0.0008	YANIMI	√	
	yanimi006	0.0008	0.9985	0.0006	0.0008	0.001	0.0008	0.0007	0	0.0002	0.0008	YANIMI	√	
3	lukas005	0.0007	0.0007	0.9983	0.0011	0.0008	0.0008	0.0009	0.0011	0.0005	0.0007	LUKAS	√	
	lukas006	0.0007	0.0007	0.9983	0.0011	0.0008	0.0008	0.0009	0.0011	0.0005	0.0007	LUKAS	√	
4	hotma005	0.0002	0.0006	0.0007	0.9985	0.0004	0.0008	0.0003	0.001	0.001	0.0004	HOTMA	√	
	hotma006	0.0002	0.0006	0.0007	0.9985	0.0004	0.0008	0.0003	0.001	0.001	0.0004	HOTMA	√	
5	dwi005	0.0008	0.0008	0.0004	0.0005	0.9983	0.0001	0.0007	0	0.0003	0.0003	DWI	√	
	dwi005	0.0008	0.0008	0.0004	0.0005	0.9983	0.0001	0.0007	0	0.0003	0.0003	DWI	√	
6	benny005	0.0001	0.0001	0.0001	0.0001	0.0001	0.9998	0	0.0001	0.0001	0.0001	BENNY	√	
	benny006	0.0001	0.0001	0.0001	0.0001	0.0001	0.9998	0	0.0001	0.0001	0.0001	BENNY	√	
7	togu005	0.0001	0.0002	0.0005	0.0009	0.0007	0.0005	0.9982	0.0004	0.0008	0.0009	TOGU	√	
	togu006	0.0001	0.0002	0.0005	0.0009	0.0007	0.0005	0.9982	0.0004	0.0008	0.0009	TOGU	√	
8	febru005	0.0011	0.0005	0.0005	0.0004	0.0004	0.0006	0.0005	0.9983	0.001	0.0005	FEBRU	√	
	febru005	0.0011	0.0005	0.0005	0.0004	0.0004	0.0006	0.0005	0.9983	0.001	0.0005	FEBRU	√	
9	ella005	0.0002	0.0004	0.0001	0.0001	0.0002	0.001	0.0005	0.0006	0.9985	0.0008	ELLA	√	
	ella006	0.0002	0.0004	0.0001	0.0001	0.0002	0.001	0.0005	0.0006	0.9985	0.0008	ELLA	√	
10	febri005	0.0045	0.0027	0.0005	0.0014	0.0024	0.0048	0.0019	0.0039	0.0029	0.9879	FEBRI	√	
	febri005	0.0045	0.0027	0.0005	0.0014	0.0024	0.0048	0.0019	0.0039	0.0029	0.9879	FEBRI	√	