

LAMPIRAN A
LIST PROGRAM PADA MATLAB UNTUK JENIS
BASELINE TASK

Program untuk pengolahan data

subyek 1

```
load s1b3.mat
load s1b4.mat
load s1b5.mat
load s1b6.mat
load s1b7.mat

%bases1b3:coeff dari s1b3
b_s1b3=s1b3(1:6,:);
[bases1b3,latent1]=princomp(b_s1b3);
s1base1=[bases1b3(:,1);bases1b3(:,2);bases1b3(:,3);bases1b3(:,4);
bases1b3(:,5);bases1b3(:,6)];

%bases1b4:coeff dari s1b4
b_s1b4=s1b4(1:6,:);
[bases1b4,latent2]=princomp(b_s1b4);
s1base2=[bases1b4(:,1);bases1b4(:,2);bases1b4(:,3);bases1b4(:,4);
bases1b4(:,5);bases1b4(:,6)];

%bases1b5:coeff dari s1b5
b_s1b5=s1b5(1:6,:);
[bases1b5,latent3]=princomp(b_s1b5);
s1base3=[bases1b5(:,1);bases1b5(:,2);bases1b5(:,3);bases1b5(:,4);
bases1b5(:,5);bases1b5(:,6)];

%bases1b6:coeff dari s1b6
b_s1b6=s1b6(1:6,:);
[bases1b6,latent4]=princomp(b_s1b6);
s1base4=[bases1b6(:,1);bases1b6(:,2);bases1b6(:,3);bases1b6(:,4);
bases1b6(:,5);bases1b6(:,6)];

%bases1b7:coeff dari s1b7
b_s1b7=s1b7(1:6,:);
[bases1b7,latent5]=princomp(b_s1b7);
s1base5=[bases1b7(:,1);bases1b7(:,2);bases1b7(:,3);bases1b7(:,4);
bases1b7(:,5);bases1b7(:,6)];

inputs1base=[s1base1 s1base2 s1base3 s1base4 s1base5];
```

subyek 3

```
load s3b2.mat
load s3b4.mat
load s3b5.mat
load s3b7.mat
load s3b10.mat
```

```
%bases3b2:coeff dari s3b2
b_s3b2=s3b2(1:6,:);
[bases3b2,latent1]=princomp(b_s3b2);
s3base1=[bases3b2(:,1);bases3b2(:,2);bases3b2(:,3);bases3b2(:,4);
bases3b2(:,5);bases3b2(:,6)];

%bases3b4:coeff dari s3b4
b_s3b4=s3b4(1:6,:);
[bases3b4,latent2]=princomp(b_s3b4);
```

```

s3base2=[bases3b4(:,1);bases3b4(:,2);bases3b4(:,3);bases3b4(:,4);
bases3b4(:,5);bases3b4(:,6)];

%bases3b5:coeff dari s3b5
b_s3b5=s3b5(1:6,:)';
[bases3b5,latent3]=princomp(b_s3b5);
s3base3=[bases3b5(:,1);bases3b5(:,2);bases3b5(:,3);bases3b5(:,4);
bases3b5(:,5);bases3b5(:,6)];

%bases3b7:coeff dari s3b7
b_s3b7=s3b7(1:6,:)';
[bases3b7,latent4]=princomp(b_s3b7);
s3base4=[bases3b7(:,1);bases3b7(:,2);bases3b7(:,3);bases3b7(:,4);
bases3b7(:,5);bases3b7(:,6)];

%bases3b10:coeff dari s3b10
b_s3b10=s3b10(1:6,:)';
[bases3b10,latent5]=princomp(b_s3b10);
s3base5=[bases3b10(:,1);bases3b10(:,2);bases3b10(:,3);bases3b10(:,4);
bases3b10(:,5);bases3b10(:,6)];

inputs3base=[s3base1 s3base2 s3base3 s3base4 s3base5];

subyek 5
load s5b6.mat
load s5b7.mat
load s5b8.mat
load s5b9.mat
load s5b10.mat

%bases5b6:coeff dari s5b6
b_s5b6=s5b6(1:6,:)';
[bases5b6,latent1]=princomp(b_s5b6);
s5base1=[bases5b6(:,1);bases5b6(:,2);bases5b6(:,3);bases5b6(:,4);
bases5b6(:,5);bases5b6(:,6)];

%bases5b7:coeff dari s5b7
b_s5b7=s5b7(1:6,:)';
[bases5b7,latent2]=princomp(b_s5b7);
s5base2=[bases5b7(:,1);bases5b7(:,2);bases5b7(:,3);bases5b7(:,4);
bases5b7(:,5);bases5b7(:,6)];

%bases5b8:coeff dari s5b8
b_s5b8=s5b8(1:6,:)';
[bases5b8,latent3]=princomp(b_s5b8);
s5base3=[bases5b8(:,1);bases5b8(:,2);bases5b8(:,3);bases5b8(:,4);
bases5b8(:,5);bases5b8(:,6)];

%bases5b9:coeff dari s5b9
b_s5b9=s5b9(1:6,:)';
[bases5b9,latent4]=princomp(b_s5b9);
s5base4=[bases5b9(:,1);bases5b9(:,2);bases5b9(:,3);bases5b9(:,4);
bases5b9(:,5);bases5b9(:,6)];

%bases5b10:coeff dari s5b10
b_s5b10=s5b10(1:6,:)';
[bases5b10,latent5]=princomp(b_s5b10);
s5base5=[bases5b10(:,1);bases5b10(:,2);bases5b10(:,3);bases5b10(:,4);
bases5b10(:,5);bases5b10(:,6)];

```

```

inputs5base=[s5base1 s5base2 s5base3 s5base4 s5base5];

List Program untuk proses pengujian
load trainnetA.mat
s1base
s3base
s5base

uji_base=[inputs1base inputs3base inputs5base];
base1_A=sim(netA,uji_base)

%n=baris ke
%m=kolom ke
for m=1:15
    total=0;
    for n=1:5
        total=total+base1_A(n,m);
    end;
    rata=total/5;
    jumlah=0;
    for n=1:5
        jumlah=jumlah+(base1_A(n,m)-rata)^2;
    end;
    deviasi=sqrt(jumlah/4);
    deviasi=0.4*deviasi;
    for n=1:5
        if base1_A(n,m)<=deviasi
            base1_A(n,m)=0;
        else base1_A(n,m)=1;
        end;
    end;
end;

base1_A

ob=[1;0;0;0;0];
v=0;
for i=1:15
    if base1_A(:,i)==ob(:, :)
        v=v+1;
    else v=v;
    end;
end;
Persen=(v/15)*100 ;
hasil=num2str(Persen);
disp(['persentase=' hasil , '%']);

```

nb: program yang ditampilkan pada lampiran hanya beberapa dari keseluruhan program, untuk keseluruhan program dapat dilihat pada CD laporan Tugas Akhir

LAMPIRAN B
LIST PROGRAM PADA MATLAB UNTUK JENIS
VISUAL COUNTING TASK

Program untuk pengolahan data

Subyek 1

```
load s1c3.mat
load s1c4.mat
load s1c5.mat
load s1c6.mat
load s1c7.mat

%countings1c3:coeff dari s1c3
c_s1c3=s1c3(1:6,:);
[countings1c3,latent1]=princomp(c_s1c3);
s1counting1=[countings1c3(:,1);countings1c3(:,2);countings1c3(:,3)
);countings1c3(:,4);countings1c3(:,5);countings1c3(:,6)];

%countings1c4:coeff dari s1c4
c_s1c4=s1c4(1:6,:);
[countings1c4,latent2]=princomp(c_s1c4);
s1counting2=[countings1c4(:,1);countings1c4(:,2);countings1c4(:,3)
);countings1c4(:,4);countings1c4(:,5);countings1c4(:,6)];

%countings1c5:coeff dari s1c5
c_s1c5=s1c5(1:6,:);
[countings1c5,latent3]=princomp(c_s1c5);
s1counting3=[countings1c5(:,1);countings1c5(:,2);countings1c5(:,3)
);countings1c5(:,4);countings1c5(:,5);countings1c5(:,6)];

%countings1c6:coeff dari s1c6
c_s1c6=s1c6(1:6,:);
[countings1c6,latent4]=princomp(c_s1c6);
s1counting4=[countings1c6(:,1);countings1c6(:,2);countings1c6(:,3)
);countings1c6(:,4);countings1c6(:,5);countings1c6(:,6)];

%countings1c7:coeff dari s1c7
c_s1c7=s1c7(1:6,:);
[countings1c7,latent5]=princomp(c_s1c7);
s1counting5=[countings1c7(:,1);countings1c7(:,2);countings1c7(:,3)
);countings1c7(:,4);countings1c7(:,5);countings1c7(:,6)];

inputs1counting=[s1counting1 s1counting2 s1counting3 s1counting4
s1counting5];
```

subyek 3

```
load s3c2.mat
load s3c4.mat
load s3c5.mat
load s3c7.mat
load s3c10.mat

%countings3c2:coeff dari s3c2
c_s3c2=s3c2(1:6,:);
[countings3c2,latent1]=princomp(c_s3c2);
s3counting1=[countings3c2(:,1);countings3c2(:,2);countings3c2(:,3)
);countings3c2(:,4);countings3c2(:,5);countings3c2(:,6)];

%countings3c4:coeff dari s3c4
c_s3c4=s3c4(1:6,:);
[countings3c4,latent2]=princomp(c_s3c4);
s3counting2=[countings3c4(:,1);countings3c4(:,2);countings3c4(:,3)
);countings3c4(:,4);countings3c4(:,5);countings3c4(:,6)];
```

```

%countings3c5:coeff dari s3c5
c_s3c5=s3c5(1:6,:);
[countings3c5,latent3]=princomp(c_s3c5);
s3counting3=[countings3c5(:,1);countings3c5(:,2);countings3c5(:,3)
);countings3c5(:,4);countings3c5(:,5);countings3c5(:,6)];

%countings3c7:coeff dari s3c7
c_s3c7=s3c7(1:6,:);
[countings3c7,latent4]=princomp(c_s3c7);
s3counting4=[countings3c7(:,1);countings3c7(:,2);countings3c7(:,3)
);countings3c7(:,4);countings3c7(:,5);countings3c7(:,6)];

%countings3c10:coeff dari s3c10
c_s3c10=s3c10(1:6,:);
[countings3c10,latent5]=princomp(c_s3c10);
s3counting5=[countings3c10(:,1);countings3c10(:,2);countings3c10(:,3)
);countings3c10(:,4);countings3c10(:,5);countings3c10(:,6)];

inputs3counting=[s3counting1 s3counting2 s3counting3 s3counting4
s3counting5];

subyek 5
load s5c6.mat
load s5c7.mat
load s5c8.mat
load s5c9.mat
load s5c10.mat

%countings5c6:coeff dari s5c6
c_s5c6=s5c6(1:6,:);
[countings5c6,latent1]=princomp(c_s5c6);
s5counting1=[countings5c6(:,1);countings5c6(:,2);countings5c6(:,3)
);countings5c6(:,4);countings5c6(:,5);countings5c6(:,6)];

%coutings5c7:coeff dari s5c7
c_s5c7=s5c7(1:6,:);
[countings5c7,latent2]=princomp(c_s5c7);
s5counting2=[countings5c7(:,1);countings5c7(:,2);countings5c7(:,3)
);countings5c7(:,4);countings5c7(:,5);countings5c7(:,6)];

%countings5c8:coeff dari s5c8
c_s5c8=s5c8(1:6,:);
[countings5c8,latent3]=princomp(c_s5c8);
s5counting3=[countings5c8(:,1);countings5c8(:,2);countings5c8(:,3)
);countings5c8(:,4);countings5c8(:,5);countings5c8(:,6)];

%countings5c9:coeff dari s5c9
c_s5c9=s5c9(1:6,:);
[countings5c9,latent4]=princomp(c_s5c9);
s5counting4=[countings5c9(:,1);countings5c9(:,2);countings5c9(:,3)
);countings5c9(:,4);countings5c9(:,5);countings5c9(:,6)];

%countings5c10:coeff dari s5c10
c_s5c10=s5c10(1:6,:);
[countings5c10,latent5]=princomp(c_s5c10);
s5counting5=[countings5c10(:,1);countings5c10(:,2);countings5c10(:,3)
);countings5c10(:,4);countings5c10(:,5);countings5c10(:,6)];

```

```

inputs5counting=[s5counting1 s5counting2 s5counting3 s5counting4
s5counting5];

List program untuk proses pengujian
load trainnetA.mat
s1counting
s3counting
s5counting

uji_counting=[inputs1counting inputs3counting inputs5counting];
count1_A=sim(netA,uji_counting)

%n=baris ke
%m=kolom ke
for m=1:15
    total=0;
    for n=1:5
        total=total+count1_A(n,m);
    end;
    rata=total/5;
    jumlah=0;
    for n=1:5
        jumlah=jumlah+(count1_A(n,m)-rata)^2;
    end;
    deviasi=sqrt(jumlah/4);
    deviasi=0.4*deviasi;
    for n=1:5
        if count1_A(n,m)<=deviasi
            count1_A(n,m)=0;
        else count1_A(n,m)=1;
        end;
    end;
end;

count1_A

oc=[0;1;0;0;0];
v=0;
for i=1:15
    if count1_A(:,i)==oc(:, :)
        v=v+1;
    else v=v;
    end;
end;
Persen=(v/15)*100 ;
hasil=num2str(Persen);
disp(['persentase=' hasil , '%']);

```

nb: program yang ditampilkan pada lampiran hanya beberapa dari keseluruhan program, untuk keseluruhan program dapat dilihat pada CD laporan Tugas Akhir

LAMPIRAN C
LIST PROGRAM PADA MATLAB UNTUK JENIS
LETTER TASK

Program untuk pengolahan data
Subyek 1

```
load s113.mat
load s114.mat
load s115.mat
load s116.mat
load s117.mat

%letters113:coeff dari s113
l_s113=s113(1:6,:);
[letters113,latent1]=princomp(l_s113);
s1letter1=[letters113(:,1);letters113(:,2);letters113(:,3);letter
s113(:,4);letters113(:,5);letters113(:,6)]; 

%letters114:coeff dari s114
l_s114=s114(1:6,:);
[letters114,latent2]=princomp(l_s114);
s1letter2=[letters114(:,1);letters114(:,2);letters114(:,3);letter
s114(:,4);letters114(:,5);letters114(:,6)]; 

%letters115:coeff dari s115
l_s115=s115(1:6,:);
[letters115,latent3]=princomp(l_s115);
s1letter3=[letters115(:,1);letters115(:,2);letters115(:,3);letter
s115(:,4);letters115(:,5);letters115(:,6)]; 

%letters116:coeff dari s116
l_s116=s116(1:6,:);
[letters116,latent4]=princomp(l_s116);
s1letter4=[letters116(:,1);letters116(:,2);letters116(:,3);letter
s116(:,4);letters116(:,5);letters116(:,6)]; 

%letters117:coeff dari s117
l_s117=s117(1:6,:);
[letters117,latent5]=princomp(l_s117);
s1letter5=[letters117(:,1);letters117(:,2);letters117(:,3);letter
s117(:,4);letters117(:,5);letters117(:,6)]; 

inputs1letter=[s1letter1 s1letter2 s1letter3 s1letter4
s1letter5];

subyek 3
load s312.mat
load s314.mat
load s315.mat
load s317.mat
load s3110.mat

%letters312:coeff dari s312
l_s312=s312(1:6,:);
[letters312,latent1]=princomp(l_s312);
s3letter1=[letters312(:,1);letters312(:,2);letters312(:,3);letter
s312(:,4);letters312(:,5);letters312(:,6)]; 

%letters314:coeff dari s314
```

```

l_s314=s314(1:6,:);
[letters314,latent2]=princomp(l_s314);
s3letter2=[letters314(:,1);letters314(:,2);letters314(:,3);letter
s314(:,4);letters314(:,5);letters314(:,6)];

%letters315:coeff dari s315
l_s315=s315(1:6,:);
[letters315,latent3]=princomp(l_s315);
s3letter3=[letters315(:,1);letters315(:,2);letters315(:,3);letter
s315(:,4);letters315(:,5);letters315(:,6)];

%letters317:coeff dari s317
l_s317=s317(1:6,:);
[letters317,latent4]=princomp(l_s317);
s3letter4=[letters317(:,1);letters317(:,2);letters317(:,3);letter
s317(:,4);letters317(:,5);letters317(:,6)];

%letters3110:coeff dari s3110
l_s3110=s3110(1:6,:);
[letters3110,latent5]=princomp(l_s3110);
s3letter5=[letters3110(:,1);letters3110(:,2);letters3110(:,3);let
ters3110(:,4);letters3110(:,5);letters3110(:,6)];

inputs3letter=[s3letter1 s3letter2 s3letter3 s3letter4
s3letter5];

subyek 5
load s516.mat
load s517.mat
load s518.mat
load s519.mat
load s5110.mat

%letters516:coeff dari s516
l_s516=s516(1:6,:);
[letters516,latent1]=princomp(l_s516);
s5letter1=[letters516(:,1);letters516(:,2);letters516(:,3);letter
s516(:,4);letters516(:,5);letters516(:,6)];

%letters517:coeff dari s517
l_s517=s517(1:6,:);
[letters517,latent2]=princomp(l_s517);
s5letter2=[letters517(:,1);letters517(:,2);letters517(:,3);letter
s517(:,4);letters517(:,5);letters517(:,6)];

%letters518:coeff dari s518
l_s518=s518(1:6,:);
[letters518,latent3]=princomp(l_s518);
s5letter3=[letters518(:,1);letters518(:,2);letters518(:,3);letter
s518(:,4);letters518(:,5);letters518(:,6)];

%letters519:coeff dari s519
l_s519=s519(1:6,:);
[letters519,latent4]=princomp(l_s519);
s5letter4=[letters519(:,1);letters519(:,2);letters519(:,3);letter
s519(:,4);letters519(:,5);letters519(:,6)];

%letters5110:coeff dari s5110
l_s5110=s5110(1:6,:);

```

```

[letters5l10,latent5]=princomp(l_s5l10);
s5letter5=[letters5l10(:,1);letters5l10(:,2);letters5l10(:,3);letters5l10(:,4);letters5l10(:,5);letters5l10(:,6)];

inputs5letter=[s5letter1 s5letter2 s5letter3 s5letter4
s5letter5];

List program untuk proses pengujian
load trainnetA.mat
s1letter
s3letter
s5letter

uji_letter=[inputs1letter inputs3letter inputs5letter];
letter1_A=sim(netA,uji_letter)

%n=baris ke
%m=kolom ke
for m=1:15
    total=0;
    for n=1:5
        total=total+letter1_A(n,m);
    end;
    rata=total/5;
    jumlah=0;
    for n=1:5
        jumlah=jumlah+(letter1_A(n,m)-rata)^2;
    end;
    deviasi=sqrt(jumlah/4);
    deviasi=0.4*deviasi;
    for n=1:5
        if letter1_A(n,m)<=deviasi
            letter1_A(n,m)=0;
        else letter1_A(n,m)=1;
        end;
    end;
end;

letter1_A

ol=[0;0;1;0;0];
v=0;
for i=1:15
    if letter1_A(:,i)==ol(:, :)
        v=v+1;
    else v=v;
    end;
end;
Persen=(v/15)*100 ;
hasil=num2str(Persen);
disp(['persentase=' hasil , '%']);

```

nb: program yang ditampilkan pada lampiran hanya beberapa dari keseluruhan program, untuk keseluruhan program dapat dilihat pada CD laporan Tugas Akhir

LAMPIRAN D
LIST PROGRAM PADA MATLAB UNTUK JENIS
MATH TASK

Program untuk pengolahan data

Subyek 1

```
load s1m3.mat
load s1m4.mat
load s1m5.mat
load s1m6.mat
load s1m7.mat

%maths1m3:coeff dari s1m3
m_s1m3=s1m3(1:6,:);
[maths1m3,latent1]=princomp(m_s1m3);
s1math1=[maths1m3(:,1);maths1m3(:,2);maths1m3(:,3);maths1m3(:,4);
maths1m3(:,5);maths1m3(:,6)];

%maths1m4:coeff dari s1m4
m_s1m4=s1m4(1:6,:);
[maths1m4,latent2]=princomp(m_s1m4);
s1math2=[maths1m4(:,1);maths1m4(:,2);maths1m4(:,3);maths1m4(:,4);
maths1m4(:,5);maths1m4(:,6)];

%maths1m5:coeff dari s1m5
m_s1m5=s1m5(1:6,:);
[maths1m5,latent3]=princomp(m_s1m5);
s1math3=[maths1m5(:,1);maths1m5(:,2);maths1m5(:,3);maths1m5(:,4);
maths1m5(:,5);maths1m5(:,6)];

%maths1m6:coeff dari s1m6
m_s1m6=s1m6(1:6,:);
[maths1m6,latent4]=princomp(m_s1m6);
s1math4=[maths1m6(:,1);maths1m6(:,2);maths1m6(:,3);maths1m6(:,4);
maths1m6(:,5);maths1m6(:,6)];

%maths1m7:coeff dari s1m7
m_s1m7=s1m7(1:6,:);
[maths1m7,latent5]=princomp(m_s1m7);
s1math5=[maths1m7(:,1);maths1m7(:,2);maths1m7(:,3);maths1m7(:,4);
maths1m7(:,5);maths1m7(:,6)];

inputs1math=[s1math1 s1math2 s1math3 s1math4 s1math5];
```

Subyek 3

```
load s3m2.mat
load s3m4.mat
load s3m5.mat
load s3m7.mat
load s3m10.mat

%maths3m2:coeff dari s3m2
m_s3m2=s3m2(1:6,:);
[maths3m2,latent1]=princomp(m_s3m2);
s3math1=[maths3m2(:,1);maths3m2(:,2);maths3m2(:,3);maths3m2(:,4);
maths3m2(:,5);maths3m2(:,6)];

%maths3m4:coeff dari s3m4
m_s3m4=s3m4(1:6,:);
[maths3m4,latent2]=princomp(m_s3m4);
```

```

s3math2=[maths3m4(:,1);maths3m4(:,2);maths3m4(:,3);maths3m4(:,4);
maths3m4(:,5);maths3m4(:,6)];

%maths3m5:coeff dari s3m5
m_s3m5=s3m5(1:6,:);
[maths3m5,latent3]=princomp(m_s3m5);
s3math3=[maths3m5(:,1);maths3m5(:,2);maths3m5(:,3);maths3m5(:,4);
maths3m5(:,5);maths3m5(:,6)];

%maths3m7:coeff dari s3m7
m_s3m7=s3m7(1:6,:);
[maths3m7,latent4]=princomp(m_s3m7);
s3math4=[maths3m7(:,1);maths3m7(:,2);maths3m7(:,3);maths3m7(:,4);
maths3m7(:,5);maths3m7(:,6)];

%maths3m10:coeff dari s3m10
m_s3m10=s3m10(1:6,:);
[maths3m10,latent5]=princomp(m_s3m10);
s3math5=[maths3m10(:,1);maths3m10(:,2);maths3m10(:,3);maths3m10(:,4);
maths3m10(:,5);maths3m10(:,6)];

inputs3math=[s3math1 s3math2 s3math3 s3math4 s3math5];

```

Subyek 5

```

load s5m6.mat
load s5m7.mat
load s5m8.mat
load s5m9.mat
load s5m10.mat

%maths5m6:coeff dari s5m6
m_s5m6=s5m6(1:6,:);
[maths5m6,latent1]=princomp(m_s5m6);
s5math1=[maths5m6(:,1);maths5m6(:,2);maths5m6(:,3);maths5m6(:,4);
maths5m6(:,5);maths5m6(:,6)];

%maths5m7:coeff dari s5m7
m_s5m7=s5m7(1:6,:);
[maths5m7,latent2]=princomp(m_s5m7);
s5math2=[maths5m7(:,1);maths5m7(:,2);maths5m7(:,3);maths5m7(:,4);
maths5m7(:,5);maths5m7(:,6)];

%maths5m8:coeff dari s5m8
m_s5m8=s5m8(1:6,:);
[maths5m8,latent3]=princomp(m_s5m8);
s5math3=[maths5m8(:,1);maths5m8(:,2);maths5m8(:,3);maths5m8(:,4);
maths5m8(:,5);maths5m8(:,6)];

%maths5m9:coeff dari s5m9
m_s5m9=s5m9(1:6,:);
[maths5m9,latent4]=princomp(m_s5m9);
s5math4=[maths5m9(:,1);maths5m9(:,2);maths5m9(:,3);maths5m9(:,4);
maths5m9(:,5);maths5m9(:,6)];

%maths5m10:coeff dari s5m10
m_s5m10=s5m10(1:6,:);
[maths5m10,latent5]=princomp(m_s5m10);
s5math5=[maths5m10(:,1);maths5m10(:,2);maths5m10(:,3);maths5m10(:,4);
maths5m10(:,5);maths5m10(:,6)];

```

```

inputs5math=[s5math1 s5math2 s5math3 s5math4 s5math5];

List program untuk proses pengujian
load trainnetA.mat
s1math
s3math
s5math

uji_math=[inputs1math inputs3math inputs5math];
mathl_A=sim(netA,uji_math)

%n=baris ke
%m=kolom ke
for m=1:15
    total=0;
    for n=1:5
        total=total+mathl_A(n,m);
    end;
    rata=total/5;
    jumlah=0;
    for n=1:5
        jumlah=jumlah+(mathl_A(n,m)-rata)^2;
    end;
    deviasi=sqrt(jumlah/4);
    deviasi=0.4*deviasi;
    for n=1:5
        if mathl_A(n,m)<=deviasi
            mathl_A(n,m)=0;
        else mathl_A(n,m)=1;
        end;
    end;
end;

mathl_A

om=[0;0;0;1;0];
v=0;
for i=1:15
    if mathl_A(:,i)==om(:, :)
        v=v+1;
    else v=v;
    end;
end;
Persen=(v/15)*100 ;
hasil=num2str(Persen);
disp(['persentase=' hasil , '%']);

```

nb: program yang ditampilkan pada lampiran hanya beberapa dari keseluruhan program, untuk keseluruhan program dapat dilihat pada CD laporan Tugas Akhir

LAMPIRAN E

LIST PROGRAM PADA MATLAB UNTUK JENIS

GEOMETRIC FIGURE ROTATION

Program untuk pengolahan data

Subyek 1

```
load slr3.mat
load slr4.mat
load slr5.mat
load slr6.mat
load slr7.mat

%rotateslr3:coeff dari slr3
r_slr3=slr3(1:6,:);
[rotateslr3,latent1]=princomp(r_slr3);
slrotate1=[rotateslr3(:,1);rotateslr3(:,2);rotateslr3(:,3);rotate
slr3(:,4);rotateslr3(:,5);rotateslr3(:,6)];

%rotateslr4:coeff dari slr4
r_slr4=slr4(1:6,:);
[rotateslr4,latent2]=princomp(r_slr4);
slrotate2=[rotateslr4(:,1);rotateslr4(:,2);rotateslr4(:,3);rotate
slr4(:,4);rotateslr4(:,5);rotateslr4(:,6)];

%rotateslr5:coeff dari slr5
r_slr5=slr5(1:6,:);
[rotateslr5,latent3]=princomp(r_slr5);
slrotate3=[rotateslr5(:,1);rotateslr5(:,2);rotateslr5(:,3);rotate
slr5(:,4);rotateslr5(:,5);rotateslr5(:,6)];

%rotateslr6:coeff dari slr6
r_slr6=slr6(1:6,:);
[rotateslr6,latent4]=princomp(r_slr6);
slrotate4=[rotateslr6(:,1);rotateslr6(:,2);rotateslr6(:,3);rotate
slr6(:,4);rotateslr6(:,5);rotateslr6(:,6)];

%rotateslr7:coeff dari slr7
r_slr7=slr7(1:6,:);
[rotateslr7,latent5]=princomp(r_slr7);
slrotate5=[rotateslr7(:,1);rotateslr7(:,2);rotateslr7(:,3);rotate
slr7(:,4);rotateslr7(:,5);rotateslr7(:,6)];

inputs1rotate=[slrotate1 slrotate2 slrotate3 slrotate4
slrotate5];
```

Subyek 3

```
load slr2.mat
load slr4.mat
load slr5.mat
load slr7.mat
load slr10.mat

%rotateslr2:coeff dari slr2
r_slr2=slr2(1:6,:);
[rotateslr2,latent1]=princomp(r_slr2);
s3rotate1=[rotateslr2(:,1);rotateslr2(:,2);rotateslr2(:,3);rotate
slr2(:,4);rotateslr2(:,5);rotateslr2(:,6)];

%rotateslr4:coeff dari slr4
r_slr4=slr4(1:6,:);
```

```

[rotateslr4,latent2]=princomp(r_slr4);
s3rotate2=[rotateslr4(:,1);rotateslr4(:,2);rotateslr4(:,3);rotate
slr4(:,4);rotateslr4(:,5);rotateslr4(:,6)];
```

```

%rotateslr5:coeff dari slr5
r_slr5=slr5(1:6,:)';
[rotateslr5,latent3]=princomp(r_slr5);
s3rotate3=[rotateslr5(:,1);rotateslr5(:,2);rotateslr5(:,3);rotate
slr5(:,4);rotateslr5(:,5);rotateslr5(:,6)];
```

```

%rotateslr7:coeff dari slr7
r_slr7=slr7(1:6,:)';
[rotateslr7,latent5]=princomp(r_slr7);
s3rotate4=[rotateslr7(:,1);rotateslr7(:,2);rotateslr7(:,3);rotate
slr7(:,4);rotateslr7(:,5);rotateslr7(:,6)];
```

```

%rotateslr10:coeff dari slr10
r_slr10=slr10(1:6,:)';
[rotateslr10,latent4]=princomp(r_slr10);
s3rotate5=[rotateslr10(:,1);rotateslr10(:,2);rotateslr10(:,3);rot
ateslr10(:,4);rotateslr10(:,5);rotateslr10(:,6)];
```

```

inputs3rotate=[s3rotate1 s3rotate2 s3rotate3 s3rotate4
s3rotate5];
```

Subyek 5

```

load slr6.mat
load slr7.mat
load slr8.mat
load slr9.mat
load slr10.mat
```

```

%rotateslr6:coeff dari slr6
r_slr6=slr6(1:6,:)';
[rotateslr6,latent4]=princomp(r_slr6);
s5rotate1=[rotateslr6(:,1);rotateslr6(:,2);rotateslr6(:,3);rotate
slr6(:,4);rotateslr6(:,5);rotateslr6(:,6)];
```

```

%rotateslr7:coeff dari slr7
r_slr7=slr7(1:6,:)';
[rotateslr7,latent5]=princomp(r_slr7);
s5rotate2=[rotateslr7(:,1);rotateslr7(:,2);rotateslr7(:,3);rotate
slr7(:,4);rotateslr7(:,5);rotateslr7(:,6)];
```

```

%rotateslr8:coeff dari slr8
r_slr8=slr8(1:6,:)';
[rotateslr8,latent1]=princomp(r_slr8);
s5rotate3=[rotateslr8(:,1);rotateslr8(:,2);rotateslr8(:,3);rotate
slr8(:,4);rotateslr8(:,5);rotateslr8(:,6)];
```

```

%rotateslr9:coeff dari slr9
r_slr9=slr9(1:6,:)';
[rotateslr9,latent2]=princomp(r_slr9);
s5rotate4=[rotateslr9(:,1);rotateslr9(:,2);rotateslr9(:,3);rotate
slr9(:,4);rotateslr9(:,5);rotateslr9(:,6)];
```

```

%rotateslr10:coeff dari slr10
r_slr10=slr10(1:6,:)';
[rotateslr10,latent3]=princomp(r_slr10);
```

```

s5rotate5=[rotates1r10(:,1);rotates1r10(:,2);rotates1r10(:,3);rot
ates1r10(:,4);rotates1r10(:,5);rotates1r10(:,6)];

inputs5rotate=[s5rotate1 s5rotate2 s5rotate3 s5rotate4
s5rotate5];

List program untuk proses pengujian
load trainnetA.mat
s1rotate
s3rotate
s5rotate

uji_rotate=[inputs1rotate inputs3rotate inputs5rotate];
rotate1_A=sim(netA,uji_rotate)

%n=baris ke
%m=kolom ke
for m=1:15
    total=0;
    for n=1:5
        total=total+rotate1_A(n,m);
    end;
    rata=total/5;
    jumlah=0;
    for n=1:5
        jumlah=jumlah+(rotate1_A(n,m)-rata)^2;
    end;
    deviasi=sqrt(jumlah/4);
    deviasi=0.4*deviasi;
    for n=1:5
        if rotate1_A(n,m)<=deviasi
            rotate1_A(n,m)=0;
        else rotate1_A(n,m)=1;
        end;
    end;
end;

rotate1_A

or=[0;0;0;0;1];
v=0;
for i=1:15
    if rotate1_A(:,i)==or(:, :)
        v=v+1;
    else v=v;
    end;
end;
Persen=(v/15)*100 ;
hasil=num2str(Persen);
disp(['persentase=' hasil , '%']);

```

nb: program yang ditampilkan pada lampiran hanya beberapa dari keseluruhan program, untuk keseluruhan program dapat dilihat pada CD laporan Tugas Akhir