**LAMPIRAN**

1. ***Source Code* Proses Halaman Utama**

procedure TCari\_jarak.prosesClick(Sender: TObject);

begin

if proses.Caption='Reset' then begin

AppName := PChar(Application.ExeName);

WinExec(AppName, SW\_SHOW);

Application.Terminate;

end

else begin

if EditLZ.Enabled=False then garis[1,1,1]:=5000 else garis[1,1,1]:=StrToInt(EditLZ.Text);

if EditMZ.Enabled=False then garis[1,2,1]:=5000 else garis[1,2,1]:=StrToInt(EditMZ.Text);

if EditNZ.Enabled=False then garis[1,3,1]:=5000 else garis[1,3,1]:=StrToInt(EditNZ.Text);

if EditOZ.Enabled=False then garis[1,4,1]:=5000 else garis[1,4,1]:=StrToInt(EditOZ.Text);

if EditPZ.Enabled=False then garis[1,5,1]:=5000 else garis[1,5,1]:=StrToInt(EditPZ.Text);

if EditGL.Enabled=False then garis[2,1,1]:=5000 else garis[2,1,1]:=StrToInt(EditGL.Text);

if EditGM.Enabled=False then garis[2,1,2]:=5000 else garis[2,1,2]:=StrToInt(EditGM.Text);

if EditGN.Enabled=False then garis[2,1,3]:=5000 else garis[2,1,3]:=StrToInt(EditGN.Text);

if EditGO.Enabled=False then garis[2,1,4]:=5000 else garis[2,1,4]:=StrToInt(EditGO.Text);

if EditGP.Enabled=False then garis[2,1,5]:=5000 else garis[2,1,5]:=StrToInt(EditGP.Text);

if EditHL.Enabled=False then garis[2,2,1]:=5000 else garis[2,2,1]:=StrToInt(EditHL.Text);

if EditHM.Enabled=False then garis[2,2,2]:=5000 else garis[2,2,2]:=StrToInt(EditHM.Text);

if EditHN.Enabled=False then garis[2,2,3]:=5000 else garis[2,2,3]:=StrToInt(EditHN.Text);

if EditHO.Enabled=False then garis[2,2,4]:=5000 else garis[2,2,4]:=StrToInt(EditHO.Text);

if EditHP.Enabled=False then garis[2,2,5]:=5000 else garis[2,2,5]:=StrToInt(EditHP.Text);

if EditIL.Enabled=False then garis[2,3,1]:=5000 else garis[2,3,1]:=StrToInt(EditIL.Text);

if EditIM.Enabled=False then garis[2,3,2]:=5000 else garis[2,3,2]:=StrToInt(EditIM.Text);

if EditIN.Enabled=False then garis[2,3,3]:=5000 else garis[2,3,3]:=StrToInt(EditIN.Text);

if EditIO.Enabled=False then garis[2,3,4]:=5000 else garis[2,3,4]:=StrToInt(EditIO.Text);

if EditIP.Enabled=False then garis[2,3,5]:=5000 else garis[2,3,5]:=StrToInt(EditIP.Text);

if EditJL.Enabled=False then garis[2,4,1]:=5000 else garis[2,4,1]:=StrToInt(EditJL.Text);

if EditJM.Enabled=False then garis[2,4,2]:=5000 else garis[2,4,2]:=StrToInt(EditJM.Text);

if EditJN.Enabled=False then garis[2,4,3]:=5000 else garis[2,4,3]:=StrToInt(EditJN.Text);

if EditJO.Enabled=False then garis[2,4,4]:=5000 else garis[2,4,4]:=StrToInt(EditJO.Text);

if EditJP.Enabled=False then garis[2,4,5]:=5000 else garis[2,4,5]:=StrToInt(EditJP.Text);

if EditKL.Enabled=False then garis[2,5,1]:=5000 else garis[2,5,1]:=StrToInt(EditKL.Text);

if EditKM.Enabled=False then garis[2,5,2]:=5000 else garis[2,5,2]:=StrToInt(EditKM.Text);

if EditKN.Enabled=False then garis[2,5,3]:=5000 else garis[2,5,3]:=StrToInt(EditKN.Text);

if EditKO.Enabled=False then garis[2,5,4]:=5000 else garis[2,5,4]:=StrToInt(EditKO.Text);

if EditKP.Enabled=False then garis[2,5,5]:=5000 else garis[2,5,5]:=StrToInt(EditKP.Text);

if EditBG.Enabled=False then garis[3,1,1]:=5000 else garis[3,1,1]:=StrToInt(EditBG.Text);

if EditBH.Enabled=False then garis[3,1,2]:=5000 else garis[3,1,2]:=StrToInt(EditBH.Text);

if EditBI.Enabled=False then garis[3,1,3]:=5000 else garis[3,1,3]:=StrToInt(EditBI.Text);

if EditBJ.Enabled=False then garis[3,1,4]:=5000 else garis[3,1,4]:=StrToInt(EditBJ.Text);

if EditBK.Enabled=False then garis[3,1,5]:=5000 else garis[3,1,5]:=StrToInt(EditBK.Text);

if EditCG.Enabled=False then garis[3,2,1]:=5000 else garis[3,2,1]:=StrToInt(EditCG.Text);

if EditCH.Enabled=False then garis[3,2,2]:=5000 else garis[3,2,2]:=StrToInt(EditCH.Text);

if EditCI.Enabled=False then garis[3,2,3]:=5000 else garis[3,2,3]:=StrToInt(EditCI.Text);

if EditCJ.Enabled=False then garis[3,2,4]:=5000 else garis[3,2,4]:=StrToInt(EditCJ.Text);

if EditCK.Enabled=False then garis[3,2,5]:=5000 else garis[3,2,5]:=StrToInt(EditCK.Text);

if EditDG.Enabled=False then garis[3,3,1]:=5000 else garis[3,3,1]:=StrToInt(EditDG.Text);

if EditDH.Enabled=False then garis[3,3,2]:=5000 else garis[3,3,2]:=StrToInt(EditDH.Text);

if EditDI.Enabled=False then garis[3,3,3]:=5000 else garis[3,3,3]:=StrToInt(EditDI.Text);

if EditDJ.Enabled=False then garis[3,3,4]:=5000 else garis[3,3,4]:=StrToInt(EditDJ.Text);

if EditDK.Enabled=False then garis[3,3,5]:=5000 else garis[3,3,5]:=StrToInt(EditDK.Text);

if EditEG.Enabled=False then garis[3,4,1]:=5000 else garis[3,4,1]:=StrToInt(EditEG.Text);

if EditEH.Enabled=False then garis[3,4,2]:=5000 else garis[3,4,2]:=StrToInt(EditEH.Text);

if EditEI.Enabled=False then garis[3,4,3]:=5000 else garis[3,4,3]:=StrToInt(EditEI.Text);

if EditEJ.Enabled=False then garis[3,4,4]:=5000 else garis[3,4,4]:=StrToInt(EditEJ.Text);

if EditEK.Enabled=False then garis[3,4,5]:=5000 else garis[3,4,5]:=StrToInt(EditEK.Text);

if EditFG.Enabled=False then garis[3,5,1]:=5000 else garis[3,5,1]:=StrToInt(EditFG.Text);

if EditFH.Enabled=False then garis[3,5,2]:=5000 else garis[3,5,2]:=StrToInt(EditFH.Text);

if EditFI.Enabled=False then garis[3,5,3]:=5000 else garis[3,5,3]:=StrToInt(EditFI.Text);

if EditFJ.Enabled=False then garis[3,5,4]:=5000 else garis[3,5,4]:=StrToInt(EditFJ.Text);

if EditFK.Enabled=False then garis[3,5,5]:=5000 else garis[3,5,5]:=StrToInt(EditFK.Text);

if EditAB.Enabled=False then garis[4,1,1]:=5000 else garis[4,1,1]:=StrToInt(EditAB.Text);

if EditAC.Enabled=False then garis[4,1,2]:=5000 else garis[4,1,2]:=StrToInt(EditAC.Text);

if EditAD.Enabled=False then garis[4,1,3]:=5000 else garis[4,1,3]:=StrToInt(EditAD.Text);

if EditAE.Enabled=False then garis[4,1,4]:=5000 else garis[4,1,4]:=StrToInt(EditAE.Text);

if EditAF.Enabled=False then garis[4,1,5]:=5000 else garis[4,1,5]:=StrToInt(EditAF.Text);

if garis[1,1,1]=0 then

if garis[1,2,1]=0 then

if garis[1,3,1]=0 then

if garis[1,4,1]=0 then

if garis[1,5,1]=0 then

if garis[2,1,1]=0 then

if garis[2,1,2]=0 then

if garis[2,1,3]=0 then

if garis[2,1,4]=0 then

if garis[2,1,5]=0 then

if garis[2,2,1]=0 then

if garis[2,2,2]=0 then

if garis[2,2,3]=0 then

if garis[2,2,4]=0 then

if garis[2,2,5]=0 then

if garis[2,3,1]=0 then

if garis[2,3,2]=0 then

if garis[2,3,3]=0 then

if garis[2,3,4]=0 then

if garis[2,3,5]=0 then

if garis[2,4,1]=0 then

if garis[2,4,2]=0 then

if garis[2,4,3]=0 then

if garis[2,4,4]=0 then

if garis[2,4,5]=0 then

if garis[2,5,1]=0 then

if garis[2,5,2]=0 then

if garis[2,5,3]=0 then

if garis[2,5,4]=0 then

if garis[2,5,5]=0 then

if garis[3,1,1]=0 then

if garis[3,1,2]=0 then

if garis[3,1,3]=0 then

if garis[3,1,4]=0 then

if garis[3,1,5]=0 then

if garis[3,2,1]=0 then

if garis[3,2,2]=0 then

if garis[3,2,3]=0 then

if garis[3,2,4]=0 then

if garis[3,2,5]=0 then

if garis[3,3,1]=0 then

if garis[3,3,2]=0 then

if garis[3,3,3]=0 then

if garis[3,3,4]=0 then

if garis[3,3,5]=0 then

if garis[3,4,1]=0 then

if garis[3,4,2]=0 then

if garis[3,4,3]=0 then

if garis[3,4,4]=0 then

if garis[3,4,5]=0 then

if garis[3,5,1]=0 then

if garis[3,5,2]=0 then

if garis[3,5,3]=0 then

if garis[3,5,4]=0 then

if garis[3,5,5]=0 then

if garis[4,1,1]=0 then

if garis[4,1,2]=0 then

if garis[4,1,3]=0 then

if garis[4,1,4]=0 then

if garis[4,1,5]=0 then

begin

ShowMessage('Maaf, semua data yang anda masukkan bernilai 0.');

Exit;

end;

//Lapis 1

for i:=1 to 5 do

for j:=1 to 5 do

titik[1,i,j]:=garis[2,i,j]+garis[1,j,1];

banyak1:=0;

for i:=1 to 5 do

begin

min[1,i]:=titik[1,i,1];

for j:=2 to 5 do

if min[1,i]>titik[1,i,j] then min[1,i]:=titik[1,i,j];

for j:=1 to 5 do

if min[1,i]=titik[1,i,j] then

begin

banyak1:=banyak1+1;

jalur1[banyak1,1]:=j;

jalur1[banyak1,2]:=i;

end;

end;

//Lapis 2

for i:=1 to 5 do

for j:=1 to 5 do

titik[2,i,j]:=garis[3,i,j]+min[1,j];

banyak2:=0;

for i:=1 to 5 do

begin

min[2,i]:=titik[2,i,1];

for j:=2 to 5 do

if min[2,i]>titik[2,i,j] then min[2,i]:=titik[2,i,j];

for j:=1 to 5 do

if min[2,i]=titik[2,i,j] then

for k:=1 to banyak1 do

if jalur1[k,2]=j then

begin

banyak2:=banyak2+1;

jalur2[banyak2,1]:=jalur1[k,1];

jalur2[banyak2,2]:=jalur1[k,2];

jalur2[banyak2,3]:=i;

end;

end;

//Lapis 3

for i:=1 to 5 do

titik[3,1,i]:=garis[4,1,i]+min[2,i];

banyak3:=0;

min[3,1]:=titik[3,1,1];

for i:=2 to 5 do

if min[3,1]>titik[3,1,i] then min[3,1]:=titik[3,1,i];

for i:=1 to 5 do

if min[3,1]=titik[3,1,i] then

for j:=1 to banyak2 do

if jalur2[j,3]=i then

begin

banyak3:=banyak3+1;

jalur3[banyak3,1]:=jalur2[j,1];

jalur3[banyak3,2]:=jalur2[j,2];

jalur3[banyak3,3]:=jalur2[j,3];

jalur3[banyak3,4]:=1;

end;

//Konversi jalur

for i:=1 to banyak3 do

begin

if jalur3[i,1]=1 then jalur\_titik[i,1]:='L-Z'

else if jalur3[i,1]=2 then jalur\_titik[i,1]:='M-Z'

else if jalur3[i,1]=3 then jalur\_titik[i,1]:='N-Z'

else if jalur3[i,1]=4 then jalur\_titik[i,1]:='O-Z'

else if jalur3[i,1]=5 then jalur\_titik[i,1]:='P-Z';

if jalur3[i,2]=1 then jalur\_titik[i,2]:='G-'

else if jalur3[i,2]=2 then jalur\_titik[i,2]:='H-'

else if jalur3[i,2]=3 then jalur\_titik[i,2]:='I-'

else if jalur3[i,2]=4 then jalur\_titik[i,2]:='J-'

else if jalur3[i,2]=5 then jalur\_titik[i,2]:='K-';

if jalur3[i,3]=1 then jalur\_titik[i,3]:='A-B-'

else if jalur3[i,3]=2 then jalur\_titik[i,3]:='A-C-'

else if jalur3[i,3]=3 then jalur\_titik[i,3]:='A-D-'

else if jalur3[i,3]=4 then jalur\_titik[i,3]:='A-E-'

else if jalur3[i,3]=5 then jalur\_titik[i,3]:='A-F-';

end;

if min[3,1]>4000 then

begin

ShowMessage('Maaf, ada jalur yang tidak terhubung dan solusi tidak ditemukan.');

Exit;

end;

jarak.Caption:='Jarak minimum = '+IntToStr(min[3,1]);

jarak.Visible:=True;

MemoJalur.Clear;

for i:=1 to banyak3 do

begin

hasil\_jalur:=jalur\_titik[i,3]+jalur\_titik[i,2]+jalur\_titik[i,1];

MemoJalur.Lines.Add(hasil\_jalur);

end;

MemoJalur.Visible:=True;

for i:=1 to banyak3 do

begin

hasil\_jalur:=jalur\_titik[i,3]+jalur\_titik[i,2]+jalur\_titik[i,1];

//Kolom 1

if copy(hasil\_jalur,1,3)='A-B' then Line2AB.Visible:=True;

if copy(hasil\_jalur,1,3)='A-C' then Line2AC.Visible:=True;

if copy(hasil\_jalur,1,3)='A-D' then Line2AD.Visible:=True;

if copy(hasil\_jalur,1,3)='A-E' then Line2AE.Visible:=True;

if copy(hasil\_jalur,1,3)='A-F' then Line2AF.Visible:=True;

//Kolom 2

if copy(hasil\_jalur,3,3)='B-G' then Line2BG.Visible:=True;

if copy(hasil\_jalur,3,3)='B-H' then Line2BH.Visible:=True;

if copy(hasil\_jalur,3,3)='B-I' then Line2BI.Visible:=True;

if copy(hasil\_jalur,3,3)='B-J' then Line2BJ.Visible:=True;

if copy(hasil\_jalur,3,3)='B-K' then Line2BK.Visible:=True;

if copy(hasil\_jalur,3,3)='C-G' then Line2CG.Visible:=True;

if copy(hasil\_jalur,3,3)='C-H' then Line2CH.Visible:=True;

if copy(hasil\_jalur,3,3)='C-I' then Line2CI.Visible:=True;

if copy(hasil\_jalur,3,3)='C-J' then Line2CJ.Visible:=True;

if copy(hasil\_jalur,3,3)='C-K' then Line2CK.Visible:=True;

if copy(hasil\_jalur,3,3)='D-G' then Line2DG.Visible:=True;

if copy(hasil\_jalur,3,3)='D-H' then Line2DH.Visible:=True;

if copy(hasil\_jalur,3,3)='D-I' then Line2DI.Visible:=True;

if copy(hasil\_jalur,3,3)='D-J' then Line2DJ.Visible:=True;

if copy(hasil\_jalur,3,3)='D-K' then Line2DK.Visible:=True;

if copy(hasil\_jalur,3,3)='E-G' then Line2EG.Visible:=True;

if copy(hasil\_jalur,3,3)='E-H' then Line2EH.Visible:=True;

if copy(hasil\_jalur,3,3)='E-I' then Line2EI.Visible:=True;

if copy(hasil\_jalur,3,3)='E-J' then Line2EJ.Visible:=True;

if copy(hasil\_jalur,3,3)='E-K' then Line2EK.Visible:=True;

if copy(hasil\_jalur,3,3)='F-G' then Line2FG.Visible:=True;

if copy(hasil\_jalur,3,3)='F-H' then Line2FH.Visible:=True;

if copy(hasil\_jalur,3,3)='F-I' then Line2FI.Visible:=True;

if copy(hasil\_jalur,3,3)='F-J' then Line2FJ.Visible:=True;

if copy(hasil\_jalur,3,3)='F-K' then Line2FK.Visible:=True;

//Kolom 3

if copy(hasil\_jalur,5,3)='G-L' then Line2GL.Visible:=True;

if copy(hasil\_jalur,5,3)='G-M' then Line2GM.Visible:=True;

if copy(hasil\_jalur,5,3)='G-N' then Line2GN.Visible:=True;

if copy(hasil\_jalur,5,3)='G-O' then Line2GO.Visible:=True;

if copy(hasil\_jalur,5,3)='G-P' then Line2GP.Visible:=True;

if copy(hasil\_jalur,5,3)='H-L' then Line2HL.Visible:=True;

if copy(hasil\_jalur,5,3)='H-M' then Line2HM.Visible:=True;

if copy(hasil\_jalur,5,3)='H-N' then Line2HN.Visible:=True;

if copy(hasil\_jalur,5,3)='H-O' then Line2HO.Visible:=True;

if copy(hasil\_jalur,5,3)='H-P' then Line2HP.Visible:=True;

if copy(hasil\_jalur,5,3)='I-L' then Line2IL.Visible:=True;

if copy(hasil\_jalur,5,3)='I-M' then Line2IM.Visible:=True;

if copy(hasil\_jalur,5,3)='I-N' then Line2IN.Visible:=True;

if copy(hasil\_jalur,5,3)='I-O' then Line2IO.Visible:=True;

if copy(hasil\_jalur,5,3)='I-P' then Line2IP.Visible:=True;

if copy(hasil\_jalur,5,3)='J-L' then Line2JL.Visible:=True;

if copy(hasil\_jalur,5,3)='J-M' then Line2JM.Visible:=True;

if copy(hasil\_jalur,5,3)='J-N' then Line2JN.Visible:=True;

if copy(hasil\_jalur,5,3)='J-O' then Line2JO.Visible:=True;

if copy(hasil\_jalur,5,3)='J-P' then Line2JP.Visible:=True;

if copy(hasil\_jalur,5,3)='K-L' then Line2KL.Visible:=True;

if copy(hasil\_jalur,5,3)='K-M' then Line2KM.Visible:=True;

if copy(hasil\_jalur,5,3)='K-N' then Line2KN.Visible:=True;

if copy(hasil\_jalur,5,3)='K-O' then Line2KO.Visible:=True;

if copy(hasil\_jalur,5,3)='K-P' then Line2KP.Visible:=True;

//Kolom 4

if copy(hasil\_jalur,7,3)='L-Z' then Line2LZ.Visible:=True;

if copy(hasil\_jalur,7,3)='M-Z' then Line2MZ.Visible:=True;

if copy(hasil\_jalur,7,3)='N-Z' then Line2NZ.Visible:=True;

if copy(hasil\_jalur,7,3)='O-Z' then Line2OZ.Visible:=True;

if copy(hasil\_jalur,7,3)='P-Z' then Line2PZ.Visible:=True;

end;

end;

1. ***Source Code* Contoh Proses Pemilihan Rute**

procedure TCari\_jarak.ButtonABClick(Sender: TObject);

begin

if EditAB.Enabled = true then EditAB.Enabled:=false

else EditAB.Enabled:=true;

if LineAB.Visible = true then LineAB.Visible:=false

else LineAB.Visible:=true;

end;

1. ***Source Code* Tombol Hapus/Munculkan Semua**

procedure TCari\_jarak.munculClick(Sender: TObject);

begin

jarak.Visible:=False;

memojalur.Visible:=False;

if muncul.Caption='Hapus Semua!' then

begin;

EditAB.Enabled := False;

EditAC.Enabled := False;

EditAD.Enabled := False;

EditAE.Enabled := False;

EditAF.Enabled := False;

EditBG.Enabled := False;

EditBH.Enabled := False;

EditBI.Enabled := False;

EditBJ.Enabled := False;

EditBK.Enabled := False;

EditCG.Enabled := False;

EditCH.Enabled := False;

EditCI.Enabled := False;

EditCJ.Enabled := False;

EditCK.Enabled := False;

EditDG.Enabled := False;

EditDH.Enabled := False;

EditDI.Enabled := False;

EditDJ.Enabled := False;

EditDK.Enabled := False;

EditEG.Enabled := False;

EditEH.Enabled := False;

EditEI.Enabled := False;

EditEJ.Enabled := False;

EditEK.Enabled := False;

EditFG.Enabled := False;

EditFH.Enabled := False;

EditFI.Enabled := False;

EditFJ.Enabled := False;

EditFK.Enabled := False;

EditGL.Enabled := False;

EditGM.Enabled := False;

EditGN.Enabled := False;

EditGO.Enabled := False;

EditGP.Enabled := False;

EditHL.Enabled := False;

EditHM.Enabled := False;

EditHN.Enabled := False;

EditHO.Enabled := False;

EditHP.Enabled := False;

EditIL.Enabled := False;

EditIM.Enabled := False;

EditIN.Enabled := False;

EditIO.Enabled := False;

EditIP.Enabled := False;

EditJL.Enabled := False;

EditJM.Enabled := False;

EditJN.Enabled := False;

EditJO.Enabled := False;

EditJP.Enabled := False;

EditKL.Enabled := False;

EditKM.Enabled := False;

EditKN.Enabled := False;

EditKO.Enabled := False;

EditKP.Enabled := False;

EditLZ.Enabled := False;

EditMZ.Enabled := False;

EditNZ.Enabled := False;

EditOZ.Enabled := False;

EditPZ.Enabled := False;

EditAB.Text:='0';

EditAC.Text:='0';

EditAD.Text:='0';

EditAE.Text:='0';

EditAF.Text:='0';

EditBG.Text:='0';

EditBH.Text:='0';

EditBI.Text:='0';

EditBJ.Text:='0';

EditBK.Text:='0';

EditCG.Text:='0';

EditCH.Text:='0';

EditCI.Text:='0';

EditCJ.Text:='0';

EditCK.Text:='0';

EditDG.Text:='0';

EditDH.Text:='0';

EditDI.Text:='0';

EditDJ.Text:='0';

EditDK.Text:='0';

EditEG.Text:='0';

EditEH.Text:='0';

EditEI.Text:='0';

EditEJ.Text:='0';

EditEK.Text:='0';

EditFG.Text:='0';

EditFH.Text:='0';

EditFI.Text:='0';

EditFJ.Text:='0';

EditFK.Text:='0';

EditGL.Text:='0';

EditGM.Text:='0';

EditGN.Text:='0';

EditGO.Text:='0';

EditGP.Text:='0';

EditHL.Text:='0';

EditHM.Text:='0';

EditHN.Text:='0';

EditHO.Text:='0';

EditHP.Text:='0';

EditIL.Text:='0';

EditIM.Text:='0';

EditIN.Text:='0';

EditIO.Text:='0';

EditIP.Text:='0';

EditJL.Text:='0';

EditJM.Text:='0';

EditJN.Text:='0';

EditJO.Text:='0';

EditJP.Text:='0';

EditKL.Text:='0';

EditKM.Text:='0';

EditKN.Text:='0';

EditKO.Text:='0';

EditKP.Text:='0';

EditLZ.Text:='0';

EditMZ.Text:='0';

EditNZ.Text:='0';

EditOZ.Text:='0';

EditPZ.Text:='0';

LineAB.Visible := False;

LineAC.Visible := False;

LineAD.Visible := False;

LineAE.Visible := False;

LineAF.Visible := False;

LineBG.Visible := False;

LineBH.Visible := False;

LineBI.Visible := False;

LineBJ.Visible := False;

LineBK.Visible := False;

LineCG.Visible := False;

LineCH.Visible := False;

LineCI.Visible := False;

LineCJ.Visible := False;

LineCK.Visible := False;

LineDG.Visible := False;

LineDH.Visible := False;

LineDI.Visible := False;

LineDJ.Visible := False;

LineDK.Visible := False;

LineEG.Visible := False;

LineEH.Visible := False;

LineEI.Visible := False;

LineEJ.Visible := False;

LineEK.Visible := False;

LineFG.Visible := False;

LineFH.Visible := False;

LineFI.Visible := False;

LineFJ.Visible := False;

LineFK.Visible := False;

LineGL.Visible := False;

LineGM.Visible := False;

LineGN.Visible := False;

LineGO.Visible := False;

LineGP.Visible := False;

LineHL.Visible := False;

LineHM.Visible := False;

LineHN.Visible := False;

LineHO.Visible := False;

LineHP.Visible := False;

LineIL.Visible := False;

LineIM.Visible := False;

LineIN.Visible := False;

LineIO.Visible := False;

LineIP.Visible := False;

LineJL.Visible := False;

LineJM.Visible := False;

LineJN.Visible := False;

LineJO.Visible := False;

LineJP.Visible := False;

LineKL.Visible := False;

LineKM.Visible := False;

LineKN.Visible := False;

LineKO.Visible := False;

LineKP.Visible := False;

LineLZ.Visible := False;

LineMZ.Visible := False;

LineNZ.Visible := False;

LineOZ.Visible := False;

LinePZ.Visible := False;

Line2AB.Visible := False;

Line2AC.Visible := False;

Line2AD.Visible := False;

Line2AE.Visible := False;

Line2AF.Visible := False;

Line2BG.Visible := False;

Line2BH.Visible := False;

Line2BI.Visible := False;

Line2BJ.Visible := False;

Line2BK.Visible := False;

Line2CG.Visible := False;

Line2CH.Visible := False;

Line2CI.Visible := False;

Line2CJ.Visible := False;

Line2CK.Visible := False;

Line2DG.Visible := False;

Line2DH.Visible := False;

Line2DI.Visible := False;

Line2DJ.Visible := False;

Line2DK.Visible := False;

Line2EG.Visible := False;

Line2EH.Visible := False;

Line2EI.Visible := False;

Line2EJ.Visible := False;

Line2EK.Visible := False;

Line2FG.Visible := False;

Line2FH.Visible := False;

Line2FI.Visible := False;

Line2FJ.Visible := False;

Line2FK.Visible := False;

Line2GL.Visible := False;

Line2GM.Visible := False;

Line2GN.Visible := False;

Line2GO.Visible := False;

Line2GP.Visible := False;

Line2HL.Visible := False;

Line2HM.Visible := False;

Line2HN.Visible := False;

Line2HO.Visible := False;

Line2HP.Visible := False;

Line2IL.Visible := False;

Line2IM.Visible := False;

Line2IN.Visible := False;

Line2IO.Visible := False;

Line2IP.Visible := False;

Line2JL.Visible := False;

Line2JM.Visible := False;

Line2JN.Visible := False;

Line2JO.Visible := False;

Line2JP.Visible := False;

Line2KL.Visible := False;

Line2KM.Visible := False;

Line2KN.Visible := False;

Line2KO.Visible := False;

Line2KP.Visible := False;

Line2LZ.Visible := False;

Line2MZ.Visible := False;

Line2NZ.Visible := False;

Line2OZ.Visible := False;

Line2PZ.Visible := False;

muncul.Caption:='Munculkan Semua!';

end

else begin

EditAB.Enabled := True;

EditAC.Enabled := True;

EditAD.Enabled := True;

EditAE.Enabled := True;

EditAF.Enabled := True;

EditBG.Enabled := True;

EditBH.Enabled := True;

EditBI.Enabled := True;

EditBJ.Enabled := True;

EditBK.Enabled := True;

EditCG.Enabled := True;

EditCH.Enabled := True;

EditCI.Enabled := True;

EditCJ.Enabled := True;

EditCK.Enabled := True;

EditDG.Enabled := True;

EditDH.Enabled := True;

EditDI.Enabled := True;

EditDJ.Enabled := True;

EditDK.Enabled := True;

EditEG.Enabled := True;

EditEH.Enabled := True;

EditEI.Enabled := True;

EditEJ.Enabled := True;

EditEK.Enabled := True;

EditFG.Enabled := True;

EditFH.Enabled := True;

EditFI.Enabled := True;

EditFJ.Enabled := True;

EditFK.Enabled := True;

EditGL.Enabled := True;

EditGM.Enabled := True;

EditGN.Enabled := True;

EditGO.Enabled := True;

EditGP.Enabled := True;

EditHL.Enabled := True;

EditHM.Enabled := True;

EditHN.Enabled := True;

EditHO.Enabled := True;

EditHP.Enabled := True;

EditIL.Enabled := True;

EditIM.Enabled := True;

EditIN.Enabled := True;

EditIO.Enabled := True;

EditIP.Enabled := True;

EditJL.Enabled := True;

EditJM.Enabled := True;

EditJN.Enabled := True;

EditJO.Enabled := True;

EditJP.Enabled := True;

EditKL.Enabled := True;

EditKM.Enabled := True;

EditKN.Enabled := True;

EditKO.Enabled := True;

EditKP.Enabled := True;

EditLZ.Enabled := True;

EditMZ.Enabled := True;

EditNZ.Enabled := True;

EditOZ.Enabled := True;

EditPZ.Enabled := True;

LineAB.Visible := True;

LineAC.Visible := True;

LineAD.Visible := True;

LineAE.Visible := True;

LineAF.Visible := True;

LineBG.Visible := True;

LineBH.Visible := True;

LineBI.Visible := True;

LineBJ.Visible := True;

LineBK.Visible := True;

LineCG.Visible := True;

LineCH.Visible := True;

LineCI.Visible := True;

LineCJ.Visible := True;

LineCK.Visible := True;

LineDG.Visible := True;

LineDH.Visible := True;

LineDI.Visible := True;

LineDJ.Visible := True;

LineDK.Visible := True;

LineEG.Visible := True;

LineEH.Visible := True;

LineEI.Visible := True;

LineEJ.Visible := True;

LineEK.Visible := True;

LineFG.Visible := True;

LineFH.Visible := True;

LineFI.Visible := True;

LineFJ.Visible := True;

LineFK.Visible := True;

LineGL.Visible := True;

LineGM.Visible := True;

LineGN.Visible := True;

LineGO.Visible := True;

LineGP.Visible := True;

LineHL.Visible := True;

LineHM.Visible := True;

LineHN.Visible := True;

LineHO.Visible := True;

LineHP.Visible := True;

LineIL.Visible := True;

LineIM.Visible := True;

LineIN.Visible := True;

LineIO.Visible := True;

LineIP.Visible := True;

LineJL.Visible := True;

LineJM.Visible := True;

LineJN.Visible := True;

LineJO.Visible := True;

LineJP.Visible := True;

LineKL.Visible := True;

LineKM.Visible := True;

LineKN.Visible := True;

LineKO.Visible := True;

LineKP.Visible := True;

LineLZ.Visible := True;

LineMZ.Visible := True;

LineNZ.Visible := True;

LineOZ.Visible := True;

LinePZ.Visible := True;

Line2AB.Visible := False;

Line2AC.Visible := False;

Line2AD.Visible := False;

Line2AE.Visible := False;

Line2AF.Visible := False;

Line2BG.Visible := False;

Line2BH.Visible := False;

Line2BI.Visible := False;

Line2BJ.Visible := False;

Line2BK.Visible := False;

Line2CG.Visible := False;

Line2CH.Visible := False;

Line2CI.Visible := False;

Line2CJ.Visible := False;

Line2CK.Visible := False;

Line2DG.Visible := False;

Line2DH.Visible := False;

Line2DI.Visible := False;

Line2DJ.Visible := False;

Line2DK.Visible := False;

Line2EG.Visible := False;

Line2EH.Visible := False;

Line2EI.Visible := False;

Line2EJ.Visible := False;

Line2EK.Visible := False;

Line2FG.Visible := False;

Line2FH.Visible := False;

Line2FI.Visible := False;

Line2FJ.Visible := False;

Line2FK.Visible := False;

Line2GL.Visible := False;

Line2GM.Visible := False;

Line2GN.Visible := False;

Line2GO.Visible := False;

Line2GP.Visible := False;

Line2HL.Visible := False;

Line2HM.Visible := False;

Line2HN.Visible := False;

Line2HO.Visible := False;

Line2HP.Visible := False;

Line2IL.Visible := False;

Line2IM.Visible := False;

Line2IN.Visible := False;

Line2IO.Visible := False;

Line2IP.Visible := False;

Line2JL.Visible := False;

Line2JM.Visible := False;

Line2JN.Visible := False;

Line2JO.Visible := False;

Line2JP.Visible := False;

Line2KL.Visible := False;

Line2KM.Visible := False;

Line2KN.Visible := False;

Line2KO.Visible := False;

Line2KP.Visible := False;

Line2LZ.Visible := False;

Line2MZ.Visible := False;

Line2NZ.Visible := False;

Line2OZ.Visible := False;

Line2PZ.Visible := False;

muncul.Caption:='Hapus Semua!';

end;

end;

procedure TCari\_jarak.EditABChange(Sender: TObject);

begin

if EditAB.Text='' then EditAB.Text:='0';

if EditAC.Text='' then EditAC.Text:='0';

if EditAD.Text='' then EditAD.Text:='0';

if EditAE.Text='' then EditAE.Text:='0';

if EditAF.Text='' then EditAF.Text:='0';

if EditBG.Text='' then EditBG.Text:='0';

if EditBH.Text='' then EditBH.Text:='0';

if EditBI.Text='' then EditBI.Text:='0';

if EditBJ.Text='' then EditBJ.Text:='0';

if EditBK.Text='' then EditBK.Text:='0';

if EditCG.Text='' then EditCG.Text:='0';

if EditCH.Text='' then EditCH.Text:='0';

if EditCI.Text='' then EditCI.Text:='0';

if EditCJ.Text='' then EditCJ.Text:='0';

if EditCK.Text='' then EditCK.Text:='0';

if EditDG.Text='' then EditDG.Text:='0';

if EditDH.Text='' then EditDH.Text:='0';

if EditDI.Text='' then EditDI.Text:='0';

if EditDJ.Text='' then EditDJ.Text:='0';

if EditDK.Text='' then EditDK.Text:='0';

if EditEG.Text='' then EditEG.Text:='0';

if EditEH.Text='' then EditEH.Text:='0';

if EditEI.Text='' then EditEI.Text:='0';

if EditEJ.Text='' then EditEJ.Text:='0';

if EditEK.Text='' then EditEK.Text:='0';

if EditFG.Text='' then EditFG.Text:='0';

if EditFH.Text='' then EditFH.Text:='0';

if EditFI.Text='' then EditFI.Text:='0';

if EditFJ.Text='' then EditFJ.Text:='0';

if EditFK.Text='' then EditFK.Text:='0';

if EditGL.Text='' then EditGL.Text:='0';

if EditGM.Text='' then EditGM.Text:='0';

if EditGN.Text='' then EditGN.Text:='0';

if EditGO.Text='' then EditGO.Text:='0';

if EditGP.Text='' then EditGP.Text:='0';

if EditHL.Text='' then EditHL.Text:='0';

if EditHM.Text='' then EditHM.Text:='0';

if EditHN.Text='' then EditHN.Text:='0';

if EditHO.Text='' then EditHO.Text:='0';

if EditHP.Text='' then EditHP.Text:='0';

if EditIL.Text='' then EditIL.Text:='0';

if EditIM.Text='' then EditIM.Text:='0';

if EditIN.Text='' then EditIN.Text:='0';

if EditIO.Text='' then EditIO.Text:='0';

if EditIP.Text='' then EditIP.Text:='0';

if EditJL.Text='' then EditJL.Text:='0';

if EditJM.Text='' then EditJM.Text:='0';

if EditJN.Text='' then EditJN.Text:='0';

if EditJO.Text='' then EditJO.Text:='0';

if EditJP.Text='' then EditJP.Text:='0';

if EditKL.Text='' then EditKL.Text:='0';

if EditKM.Text='' then EditKM.Text:='0';

if EditKN.Text='' then EditKN.Text:='0';

if EditKO.Text='' then EditKO.Text:='0';

if EditKP.Text='' then EditKP.Text:='0';

if EditLZ.Text='' then EditLZ.Text:='0';

if EditMZ.Text='' then EditMZ.Text:='0';

if EditNZ.Text='' then EditNZ.Text:='0';

if EditOZ.Text='' then EditOZ.Text:='0';

if EditPZ.Text='' then EditPZ.Text:='0';

end;

1. ***Source Code* Contoh Pembatasan Karakter Masukan**

procedure TCari\_jarak.EditABKeyPress(Sender: TObject; var Key: char);

begin

if not (Key in ['0'..'9',#8]) then

Key:=#0;

end;

1. ***Source Code* Menuju Halaman Pulau Jawa**

procedure TCari\_jarak.JawaClick(Sender: TObject);

begin

Cari\_jarak.Visible:=False;

Cari\_Jarak\_Jawa.ShowModal;

end;

1. ***Source Code* Menuju Halaman Pulau Sumatera**

procedure TCari\_jarak.SumateraClick(Sender: TObject);

begin

Cari\_jarak.Visible:=False;

Cari\_Jarak\_Sumatera.ShowModal;

end;

1. ***Source Code* Proses Halaman Pulau Jawa**

procedure TCari\_Jarak\_Jawa.Button1Click(Sender: TObject);

begin

garis[1,1,1]:=32.6; //Merak-Serang

garis[2,1,1]:=108; //Serang-Bogor

garis[2,2,1]:=87.4; //Serang-Jakarta

garis[3,1,1]:=123; //Bogor-Bandung

garis[3,1,2]:=147; //Jakarta-Bandung

garis[3,2,1]:=274; //Bogor-Cirebon

garis[3,2,2]:=237; //Jakarta-Cirebon

garis[4,1,1]:=247; //Bandung-Purwokerto

garis[4,1,2]:=145; //Cirebon-Purwokerto

garis[4,2,1]:=211; //Bandung-Tegal

garis[4,2,2]:=71.1; //Cirebon-Tegal

garis[5,1,1]:=158; //Purwokerto-Yogyakarta

garis[5,1,2]:=234; //Tegal-Yogyakarta

garis[5,2,1]:=127; //Purwokerto-Magelang

garis[5,2,2]:=190; //Tegal-Magelang

garis[5,3,1]:=177; //Purwokerto-Semarang

garis[5,3,2]:=163; //Tegal-Semarang

garis[6,1,1]:=326; //Yogyakarta-Malang

garis[6,1,2]:=366; //Magelang-Malang

garis[6,1,3]:=329; //Semarang-Malang

garis[6,2,1]:=325; //Yogyakarta-Surabaya

garis[6,2,2]:=365; //Magelang-Surabaya

garis[6,2,3]:=316; //Semarang-Surabaya

//Lapis 1

for i:=1 to 2 do

titik[1,i,1]:=garis[2,i,1]+garis[1,1,1];

for i:=1 to 2 do

min[1,i]:=titik[1,i,1];

//Lapis 2

for i:=1 to 2 do

for j:= 1 to 2 do

titik[2,i,j]:=garis[3,i,j]+min[1,j];

for i:=1 to 2 do

begin

min[2,i]:=titik[2,i,1];

if min[2,i]>titik[2,i,2] then min[2,i]:=titik[2,i,2];

end;

//Lapis 3

for i:=1 to 2 do

for j:= 1 to 2 do

titik[3,i,j]:=garis[4,i,j]+min[2,j];

for i:=1 to 2 do

begin

min[3,i]:=titik[3,i,1];

if min[3,i]>titik[3,i,2] then min[3,i]:=titik[3,i,2];

end;

//Lapis 4

for i:=1 to 3 do

for j:= 1 to 2 do

titik[4,i,j]:=garis[5,i,j]+min[3,j];

for i:=1 to 3 do

begin

min[4,i]:=titik[4,i,1];

if min[4,i]>titik[4,i,2] then min[4,i]:=titik[4,i,2];

end;

//Lapis 5

for i:=1 to 2 do

for j:= 1 to 3 do

titik[5,i,j]:=garis[6,i,j]+min[4,j];

for i:=1 to 2 do

begin

min[5,i]:=titik[5,i,1];

for j:=2 to 3 do

if min[5,i]>titik[5,i,j] then min[5,i]:=titik[5,i,j];

end;

if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Serang')) or ((KotaAwal.Text='Serang') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = 32.6 Km';

mrk\_srg.Visible:=True;

label22.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Bogor')) or ((KotaAwal.Text='Bogor') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[1,1])+' Km';

mrk\_srg.Visible:=True;

srg\_bgr.Visible:=True;

label22.Font.Style:=[fsBold];

label20.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Jakarta')) or ((KotaAwal.Text='Jakarta') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[1,2])+' Km';

mrk\_srg.Visible:=True;

srg\_jkt.Visible:=True;

label22.Font.Style:=[fsBold];

label21.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Bandung')) or ((KotaAwal.Text='Bandung') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[2,1])+' Km';

mrk\_srg.Visible:=True;

srg\_bgr.Visible:=True;

bgr\_bdg.Visible:=True;

label22.Font.Style:=[fsBold];

label20.Font.Style:=[fsBold];

label16.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Cirebon')) or ((KotaAwal.Text='Cirebon') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[2,2])+' Km';

mrk\_srg.Visible:=True;

srg\_jkt.Visible:=True;

jkt\_crb.Visible:=True;

label22.Font.Style:=[fsBold];

label21.Font.Style:=[fsBold];

label19.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Purwokerto')) or ((KotaAwal.Text='Purwokerto') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[3,1])+' Km';

mrk\_srg.Visible:=True;

srg\_jkt.Visible:=True;

jkt\_crb.Visible:=True;

crb\_pkt.Visible:=True;

label22.Font.Style:=[fsBold];

label21.Font.Style:=[fsBold];

label19.Font.Style:=[fsBold];

label14.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Tegal')) or ((KotaAwal.Text='Tegal') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[3,2])+' Km';

mrk\_srg.Visible:=True;

srg\_jkt.Visible:=True;

jkt\_crb.Visible:=True;

crb\_tgl.Visible:=True;

label22.Font.Style:=[fsBold];

label21.Font.Style:=[fsBold];

label19.Font.Style:=[fsBold];

label15.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Yogyakarta')) or ((KotaAwal.Text='Yogyakarta') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[4,1])+' Km';

mrk\_srg.Visible:=True;

srg\_jkt.Visible:=True;

jkt\_crb.Visible:=True;

crb\_pkt.Visible:=True;

pkt\_yk.Visible:=True;

label22.Font.Style:=[fsBold];

label21.Font.Style:=[fsBold];

label19.Font.Style:=[fsBold];

label14.Font.Style:=[fsBold];

label6.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Magelang')) or ((KotaAwal.Text='Magelang') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[4,2])+' Km';

mrk\_srg.Visible:=True;

srg\_jkt.Visible:=True;

jkt\_crb.Visible:=True;

crb\_tgl.Visible:=True;

tgl\_mgl.Visible:=True;

label22.Font.Style:=[fsBold];

label21.Font.Style:=[fsBold];

label19.Font.Style:=[fsBold];

label15.Font.Style:=[fsBold];

label10.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Semarang')) or ((KotaAwal.Text='Semarang') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[4,3])+' Km';

mrk\_srg.Visible:=True;

srg\_jkt.Visible:=True;

jkt\_crb.Visible:=True;

crb\_tgl.Visible:=True;

tgl\_smg.Visible:=True;

label22.Font.Style:=[fsBold];

label21.Font.Style:=[fsBold];

label19.Font.Style:=[fsBold];

label15.Font.Style:=[fsBold];

label11.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Malang')) or ((KotaAwal.Text='Malang') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[5,1])+' Km';

mrk\_srg.Visible:=True;

srg\_jkt.Visible:=True;

jkt\_crb.Visible:=True;

crb\_tgl.Visible:=True;

tgl\_smg.Visible:=True;

smg\_mlg.Visible:=True;

label22.Font.Style:=[fsBold];

label21.Font.Style:=[fsBold];

label19.Font.Style:=[fsBold];

label15.Font.Style:=[fsBold];

label11.Font.Style:=[fsBold];

label4.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Surabaya')) or ((KotaAwal.Text='Surabaya') and (EditTujuan.Text='Merak')) then

begin

Jarak.Caption:='Jarak terpendek = '+FloatToStr(min[5,2])+' Km';

mrk\_srg.Visible:=True;

srg\_jkt.Visible:=True;

jkt\_crb.Visible:=True;

crb\_tgl.Visible:=True;

tgl\_smg.Visible:=True;

smg\_sby.Visible:=True;

label22.Font.Style:=[fsBold];

label21.Font.Style:=[fsBold];

label19.Font.Style:=[fsBold];

label15.Font.Style:=[fsBold];

label11.Font.Style:=[fsBold];

label5.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Merak') and (EditTujuan.Text='Merak')) or

((KotaAwal.Text='Serang') and (EditTujuan.Text='Serang')) or

((KotaAwal.Text='Jakarta') and (EditTujuan.Text='Jakarta')) or

((KotaAwal.Text='Bogor') and (EditTujuan.Text='Bogor')) or

((KotaAwal.Text='Cirebon') and (EditTujuan.Text='Cirebon')) or

((KotaAwal.Text='Bandung') and (EditTujuan.Text='Bandung')) or

((KotaAwal.Text='Tegal') and (EditTujuan.Text='Tegal')) or

((KotaAwal.Text='Purwokerto') and (EditTujuan.Text='Purwokerto')) or

((KotaAwal.Text='Semarang') and (EditTujuan.Text='Semarang')) or

((KotaAwal.Text='Magelang') and (EditTujuan.Text='Magelang')) or

((KotaAwal.Text='Yogyakarta') and (EditTujuan.Text='Yogyakarta')) or

((KotaAwal.Text='Surabaya') and (EditTujuan.Text='Surabaya')) or

((KotaAwal.Text='Malang') and (EditTujuan.Text='Malang')) then

begin

ShowMessage('Maaf, kota awal yang Anda pilih sama dengan kota tujuan.');

Jarak.Caption:='Jarak terpendek = 0 Km';

end;

Jarak.Visible:=True;

end;

1. ***Source Code* Proses Halaman Pulau Jawa**

procedure TCari\_Jarak\_Sumatera.AwalClick(Sender: TObject);

begin

Cari\_Jarak\_Sumatera.Close;

end;

procedure TCari\_Jarak\_Sumatera.Button1Click(Sender: TObject);

begin

garis[1]:=579; //BandarLampung-Bengkulu

garis[2]:=379; //BandarLampung-Palembang (Lewat Lintas Timur)

garis[3]:=632; //BandarLampung-Palembang (Lewat Lintas Barat)

garis[4]:=552; //Bengkulu-Padang

garis[5]:=432; //Palembang-Jambi

garis[6]:=353; //Padang-PekanBaru

garis[7]:=411; //Jambi-PekanBaru

garis[8]:=777; //PekanBaru-Medan

garis[9]:=605; //Medan\_BandaAceh

jambi1:=garis[2]+garis[5]; //Ke Jambi lewat lintas Timur

jambi2:=garis[3]+garis[5]; //Ke Jambi Lewat lintas Barat

padang:=garis[1]+garis[4];

pekanbaru1:=padang+garis[6]; //Ke Pekanbaru lewat Padang

pekanbaru2:=jambi1+garis[7]; //Ke Pekanbaru lewat Jambi

medan1:=pekanbaru1+garis[8]; //Ke Medan lewat Padang

medan2:=pekanbaru2+garis[8]; //Ke Medan lewat Jambi

banda\_aceh1:=medan1+garis[9]; //Ke Banda Aceh lewat Padang

banda\_aceh2:=medan2+garis[9]; //Ke Banda Aceh lewat Jambi

if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Palembang')) or ((KotaAwal.Text='Palembang') and (EditTujuan.Text='Bandar Lampung')) then

begin

if garis[2]<garis[3] then

begin

jarak.Caption:='Jarak Minimum = '+IntToStr(garis[2])+' Km';

jarak.Visible:=True;

bdl\_plg.Visible:=True;

label1.Font.Style:=[fsBold];

end

else begin

jarak.Caption:='Jarak Minimum = '+IntToStr(garis[3])+' Km';

jarak.Visible:=True;

end;

end

else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Bengkulu')) or ((KotaAwal.Text='Bengkulu') and (EditTujuan.Text='Bandar Lampung')) then

begin

jarak.Caption:='Jarak Minimum = '+IntToStr(garis[1])+' Km';

jarak.Visible:=True;

bdl\_bkl.Visible:=True;

label3.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Jambi')) or ((KotaAwal.Text='Jambi') and (EditTujuan.Text='Bandar Lampung')) then

begin

if jambi1<jambi2 then

begin

jarak.Caption:='Jarak Minimum = '+IntToStr(jambi1)+' Km';

jarak.Visible:=True;

bdl\_plg.Visible:=True;

plg\_jmb.Visible:=True;

label1.Font.Style:=[fsBold];

label4.Font.Style:=[fsBold];

end

else begin

jarak.Caption:='Jarak Minimum = '+IntToStr(jambi2)+' Km';

jarak.Visible:=True;

end;

end

else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Padang')) or ((KotaAwal.Text='Padang') and (EditTujuan.Text='Bandar Lampung')) then

begin

jarak.Caption:='Jarak Minimum = '+IntToStr(padang)+' Km';

jarak.Visible:=True;

bdl\_bkl.Visible:=True;

bkl\_pdg.Visible:=True;

label3.Font.Style:=[fsBold];

label5.Font.Style:=[fsBold];

end

else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Pekanbaru')) or ((KotaAwal.Text='Pekanbaru') and (EditTujuan.Text='Bandar Lampung')) then

begin

if pekanbaru1<pekanbaru2 then

begin

jarak.Caption:='Jarak Minimum = '+IntToStr(pekanbaru1)+' Km';

jarak.Visible:=True;

end

else begin

jarak.Caption:='Jarak Minimum = '+IntToStr(pekanbaru2)+' Km';

jarak.Visible:=True;

bdl\_plg.Visible:=True;

plg\_jmb.Visible:=True;

jmb\_pkb.Visible:=True;

label1.Font.Style:=[fsBold];

label4.Font.Style:=[fsBold];

label6.Font.Style:=[fsBold];

end;

end

else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Medan')) or ((KotaAwal.Text='Medan') and (EditTujuan.Text='Bandar Lampung')) then

begin

if medan1<medan2 then

begin

jarak.Caption:='Jarak Minimum = '+IntToStr(medan1)+' Km';

jarak.Visible:=True;

end

else begin

jarak.Caption:='Jarak Minimum = '+IntToStr(medan2)+' Km';

jarak.Visible:=True;

bdl\_plg.Visible:=True;

plg\_jmb.Visible:=True;

jmb\_pkb.Visible:=True;

pkb\_mdn.Visible:=True;

label1.Font.Style:=[fsBold];

label4.Font.Style:=[fsBold];

label6.Font.Style:=[fsBold];

label8.Font.Style:=[fsBold];

end;

end

else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Banda Aceh')) or ((KotaAwal.Text='Banda Aceh') and (EditTujuan.Text='Bandar Lampung')) then

begin

if banda\_aceh1<banda\_aceh2 then

begin

jarak.Caption:='Jarak Minimum = '+IntToStr(banda\_aceh1)+' Km';

jarak.Visible:=True;

end

else begin

jarak.Caption:='Jarak Minimum = '+IntToStr(banda\_aceh2)+' Km';

jarak.Visible:=True;

bdl\_plg.Visible:=True;

plg\_jmb.Visible:=True;

jmb\_pkb.Visible:=True;

pkb\_mdn.Visible:=True;

mdn\_bda.Visible:=True;

label1.Font.Style:=[fsBold];

label4.Font.Style:=[fsBold];

label6.Font.Style:=[fsBold];

label8.Font.Style:=[fsBold];

label9.Font.Style:=[fsBold];

end;

end

else if ((KotaAwal.Text='Bandar Lampung') and (EditTujuan.Text='Bandar Lampung')) or

((KotaAwal.Text='Palembang') and (EditTujuan.Text='Palembang')) or

((KotaAwal.Text='Bengkulu') and (EditTujuan.Text='Bengkulu')) or

((KotaAwal.Text='Jambi') and (EditTujuan.Text='Jambi')) or

((KotaAwal.Text='Padang') and (EditTujuan.Text='Padang')) or

((KotaAwal.Text='Pekanbaru') and (EditTujuan.Text='Pekanbaru')) or

((KotaAwal.Text='Medan') and (EditTujuan.Text='Medan')) or

((KotaAwal.Text='Banda Aceh') and (EditTujuan.Text='Banda Aceh')) then

begin

ShowMessage('Maaf, kota awal yang Anda pilih sama dengan kota tujuan.');

Jarak.Caption:='Jarak Minimum = 0 Km';

Jarak.Visible:=True;

end;

end;