

## Lampiran-lampiran :

### Source code untuk form utama :

```
unit transaksi_p;

interface

uses
    Winapi.Windows,
    Winapi.Messages, System.SysUtils,
    System.Variants, System.Classes,
    Vcl.Graphics,
    Vcl.Controls, Vcl.Forms,
    Vcl.Dialogs, Vcl.ExtCtrls,
    Vcl.StdCtrls,
    Vcl.Imaging.jpeg, Vcl.ComCtrls,
    Vcl.ImgList, Vcl.DBCtrls,
    Data.DB,
    Data.Win.ADODB, Vcl.Grids,
    Vcl.DBGrids, Vcl.Buttons,
    Vcl.Mask, RpCon, RpConDS,
    RpDefine, RpRave;

type
    Tp_transaksi = class(TForm)
        PageControl1: TPageControl;
        TabSheet1: TTabSheet;
        Image3: TImage;
        Panel9: TPanel;
        Label43: TLabel;
        Memo2: TMemo;
        TabSheet2: TTabSheet;
        TabSheet3: TTabSheet;
        Image1: TImage;
        Timer1: TTimer;
        ImageList1: TImageList;
        Panel1: TPanel;
        Edit1: TEdit;
        Edit2: TEdit;
        Edit3: TEdit;
        ADOConnection1:
            TADOConnection;
        ADOQuery_pegawai: TADOQuery;
        DataSource_pegawai:
            TDataSource;
        ADOQuery_supplier: TADOQuery;
        DataSource_supplier:
            TDataSource;
        DBLookupComboBox1:
            TDBLookupComboBox;
        DBLookupComboBox2:
            TDBLookupComboBox;
        Label1: TLabel;
        Label2: TLabel;
        Label3: TLabel;
        Label4: TLabel;
        Label5: TLabel;
        Label6: TLabel;
        DataSource_konsumen:
            TDataSource;
        ADOQuery_barang: TADOQuery;
        DataSource_barang:
            TDataSource;
        ADOQuery_konsumen: TADOQuery;
        DBLookupComboBox3:
            TDBLookupComboBox;
        Panel2: TPanel;
        DBGrid1: TDBGrid;
        DataSource_v_brmasuk:
            TDataSource;
        ADOQuery_v_brmasuk:
            TADOQuery;
        SpeedButton6: TSpeedButton;
        SpeedButton1: TSpeedButton;
        SpeedButton4: TSpeedButton;
        SpeedButton5: TSpeedButton;
        Label7: TLabel;
        Panel3: TPanel;
        DBEdit1: TDBEdit;
        DBEdit2: TDBEdit;
        DBEdit3: TDBEdit;
        DBEdit4: TDBEdit;
        DBEdit5: TDBEdit;
        Label8: TLabel;
        Label9: TLabel;
```

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Label110: TLabel;
Label111: TLabel;
Label112: TLabel;
edit4: TEdit;
DBLookupComboBox4:
TDBLookupComboBox;
Label113: TLabel;
DBEdit6: TDBEdit;
SpeedButton2: TSpeedButton;
Panel4: TPanel;
DBGrid2: TDBGrid;
Panel5: TPanel;
Label114: TLabel;
Label115: TLabel;
Label116: TLabel;
Label117: TLabel;
Label118: TLabel;
Label119: TLabel;
DBEdit7: TDBEdit;
DBEdit8: TDBEdit;
DBEdit9: TDBEdit;
DBEdit10: TDBEdit;
DBEdit11: TDBEdit;
DBEdit12: TDBEdit;
Panel6: TPanel;
Label20: TLabel;
Label21: TLabel;
Label22: TLabel;
Label23: TLabel;
Label24: TLabel;
Label25: TLabel;
SpeedButton3: TSpeedButton;
SpeedButton7: TSpeedButton;
SpeedButton8: TSpeedButton;
Label26: TLabel;
SpeedButton9: TSpeedButton;
Edit5: TEdit;
Edit6: TEdit;
Edit7: TEdit;
Edit8: TEdit;
DBLookupComboBox5:
TDBLookupComboBox;
DBLookupComboBox6:
TDBLookupComboBox;
DBLookupComboBox7:
TDBLookupComboBox;
DBLookupComboBox8:
TDBLookupComboBox;
DataSource_vbrkeluar:
TDataSource;
ADOQuery_v_brkeluar:
TADOQuery;
ADOQuery1: TADOQuery;
DataSource1: TDataSource;
Edit9: TEdit;
DBGrid3: TDBGrid;
Image4: TImage;
Image2: TImage;
TabSheet4: TTabSheet;
Panel7: TPanel;
DBGrid5: TDBGrid;
Panel10: TPanel;
Label33: TLabel;
Label34: TLabel;
Label36: TLabel;
Label37: TLabel;
Label38: TLabel;
SpeedButton10: TSpeedButton;
SpeedButton11: TSpeedButton;
Label39: TLabel;
SpeedButton13: TSpeedButton;
Edit10: TEdit;
Edit11: TEdit;
Edit12: TEdit;
Edit13: TEdit;
DBLookupComboBox9:
TDBLookupComboBox;
Label27: TLabel;
Edit14: TEdit;
Edit15: TEdit;
ADOQuery_vproses: TADOQuery;
DataSource_vproses:
TDataSource;
DBGrid4: TDBGrid;
Label28: TLabel;
Label29: TLabel;
Label30: TLabel;

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Label30: TLabel;
Label31: TLabel;
Image5: TImage;
TabSheet5: TTabSheet;
CategoryPanelGroup1:
TCategoryPanelGroup;
    CategoryPanel1:
TCategoryPanel;
    CategoryPanel2:
TCategoryPanel;
    DBGrid6: TDBGrid;
    CategoryPanel3:
TCategoryPanel;
    Panel8: TPanel;
    DataSourcemax: TDataSource;
    ADOQuery_max: TADOQuery;
    DataSource_min: TDataSource;
    ADOQuery_min: TADOQuery;
    DataSource_tengah:
TDataSource;
    ADOQuery_tengah: TADOQuery;
Label32: TLabel;
Panel11: TPanel;
Label35: TLabel;
Panel12: TPanel;
Label40: TLabel;
Panel13: TPanel;
Label41: TLabel;
DBEdit13: TDBEdit;
DBEdit14: TDBEdit;
DBEdit15: TDBEdit;
DBEdit16: TDBEdit;
DBEdit17: TDBEdit;
DBEdit18: TDBEdit;
DBEdit19: TDBEdit;
DBEdit20: TDBEdit;
DBEdit21: TDBEdit;
DBEdit22: TDBEdit;
DBEdit23: TDBEdit;
Label42: TLabel;
Label44: TLabel;
Label45: TLabel;
Label46: TLabel;
Label47: TLabel;
Label47: TLabel;
Label48: TLabel;
Label49: TLabel;
Label50: TLabel;
Label51: TLabel;
Label52: TLabel;
Label54: TLabel;
Panel14: TPanel;
CategoryPanel4:
TCategoryPanel;
    Panel15: TPanel;
    bb_input: TEdit;
    tk_input: TEdit;
    va_input: TEdit;
    kh_input: TEdit;
Label53: TLabel;
Label55: TLabel;
Label56: TLabel;
Label57: TLabel;
Label58: TLabel;
Label59: TLabel;
Label60: TLabel;
Label61: TLabel;
SpeedButton12: TSpeedButton;
Label62: TLabel;
Label63: TLabel;
Label64: TLabel;
bb_ringan: TEdit;
bb_sedang: TEdit;
bb_berat: TEdit;
tk_kotor: TEdit;
tk_skotor: TEdit;
va_sedikit: TEdit;
va_sedang: TEdit;
va_banyak: TEdit;
Label65: TLabel;
Label66: TLabel;
Label67: TLabel;
Label68: TLabel;
Label69: TLabel;
Label70: TLabel;
Label71: TLabel;
Label72: TLabel;

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bb_sedang_a: TEdit;
bb_sedang_b: TEdit;
va_sedang_a: TEdit;
va_sedang_b: TEdit;
Panell16: TPanel;
Edit16: TEdit;
Edit17: TEdit;
Edit18: TEdit;
Edit19: TEdit;
Edit20: TEdit;
Edit21: TEdit;
Label173: TLabel;
Label174: TLabel;
Label175: TLabel;
Label176: TLabel;
Label177: TLabel;
Label178: TLabel;
Panell17: TPanel;
Label179: TLabel;
Label180: TLabel;
Label181: TLabel;
Label182: TLabel;
Label183: TLabel;
Label184: TLabel;
Edit22: TEdit;
Edit23: TEdit;
Edit24: TEdit;
Edit25: TEdit;
Edit26: TEdit;
Edit27: TEdit;
Panell18: TPanel;
Label185: TLabel;
Label186: TLabel;
Label187: TLabel;
Label188: TLabel;
Label189: TLabel;
Label190: TLabel;
Edit28: TEdit;
Edit29: TEdit;
Edit30: TEdit;
Edit31: TEdit;
Edit32: TEdit;
Edit33: TEdit;
-- 1: TEdit;

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p1: TEdit;
p2: TEdit;
p3: TEdit;
p4: TEdit;
p5: TEdit;
p6: TEdit;
p7: TEdit;
p8: TEdit;
p9: TEdit;
p10: TEdit;
p11: TEdit;
p12: TEdit;
p13: TEdit;
p14: TEdit;
p15: TEdit;
p16: TEdit;
p17: TEdit;
p18: TEdit;
CategoryPanel5:
TCategoryPanel;
Panell19: TPanel;
Label191: TLabel;
x4_1: TEdit;
x4_2: TEdit;
x4_3: TEdit;
x4_4: TEdit;
x4_5: TEdit;
x4_6: TEdit;
Label192: TLabel;
Label193: TLabel;
Label194: TLabel;
Label195: TLabel;
Label196: TLabel;
Panel20: TPanel;
Label197: TLabel;
Label198: TLabel;
Label199: TLabel;
Label100: TLabel;
Label101: TLabel;
Label102: TLabel;
x4_7: TEdit;
x4_8: TEdit;
x4_9: TEdit;
-- 10: TEdit;

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x4_10: TEdit;
x4_11: TEdit;
x4_12: TEdit;
Panel21: TPanel;
Label103: TLabel;
Label104: TLabel;
Label105: TLabel;
Label106: TLabel;
Label107: TLabel;
Label108: TLabel;
x4_13: TEdit;
x4_14: TEdit;
x4_15: TEdit;
x4_16: TEdit;
x4_17: TEdit;
x4_18: TEdit;
CategoryPanel6:
TCategoryPanel;
  Panel22: TPanel;
  Label109: TLabel;
  x1: TEdit;
  x2: TEdit;
  x3: TEdit;
  x4: TEdit;
  x5: TEdit;
  x6: TEdit;
  Label110: TLabel;
  Label111: TLabel;
  Label112: TLabel;
  Label113: TLabel;
  Label115: TLabel;
  Panel23: TPanel;
  Label114: TLabel;
  Label116: TLabel;
  Label117: TLabel;
  Label118: TLabel;
  Label119: TLabel;
  Label120: TLabel;
  x7: TEdit;
  x8: TEdit;
  x9: TEdit;
  x10: TEdit;
  x11: TEdit;
  x12: TEdit;
  Panel24: TPanel;
  Label121: TLabel;
  Label122: TLabel;
  Label123: TLabel;
  Label124: TLabel;
  Label125: TLabel;
  Label126: TLabel;
  x13: TEdit;
  x14: TEdit;
  x15: TEdit;
  x16: TEdit;
  x17: TEdit;
  x18: TEdit;
  CategoryPanel7:
TCategoryPanel;
  Panel25: TPanel;
  z: TEdit;
  k_to: TEdit;
  hasil: TEdit;
  Label127: TLabel;
  Label128: TLabel;
  Label129: TLabel;
  Image6: TImage;
  Image7: TImage;
  Image8: TImage;
  Image9: TImage;
  Image10: TImage;
  Image11: TImage;
  Image12: TImage;
  BitBtn1: TBitBtn;
  SpeedButton14: TSpeedButton;
  RvProject1: TRvProject;
  RvDataSetConnection1:
TRvDataSetConnection;
  SpeedButton15: TSpeedButton;
  RvDataSetConnection2:
TRvDataSetConnection;
  ADOQuery_v_totalmasuk:
TADOQuery;
  DataSource_v_totalmasuk:
TDataSource;
  DBLookupComboBox10:
TDBLookupComboBox;

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TDBLookupComboBox;
    Edit34: TEdit;
    Edit35: TEdit;
    ADOQuery_proses: TADOQuery;
    DataSource_proses:
TDataSource;
    Edit36: TEdit;
    DBLookupComboBox11:
TDBLookupComboBox;
    Edit37: TEdit;
    Edit38: TEdit;
    Edit39: TEdit;
    Edit40: TEdit;
    procedure Timer1Timer(Sender:
TObject);
    procedure
SpeedButton6Click(Sender:
TObject);
    procedure k(Sender: TObject);
    procedure
DBGrid1CellClick(Column:
TColumn);
    procedure
SpeedButton5Click(Sender:
TObject);
    procedure
SpeedButton1Click(Sender:
TObject);
    procedure
DBLookupComboBox3Click(Sender:
TObject);
    procedure
SpeedButton2Click(Sender:
TObject);
    procedure
DBLookupComboBox7Click(Sender:
TObject);
    procedure
PageControllChange(Sender:
TObject);
    procedure
SpeedButton3Click(Sender:
TObject);
    procedure

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    procedure
SpeedButton9Click(Sender:
TObject);
    procedure
DBGrid2CellClick(Column:
TColumn);
    procedure
SpeedButton7Click(Sender:
TObject);
    procedure
DBGrid3CellClick(Column:
TColumn);
    procedure
SpeedButton11Click(Sender:
TObject);
    procedure
SpeedButton10Click(Sender:
TObject);
    procedure
DBGrid5CellClick(Column:
TColumn);
    procedure
DBGrid4CellClick(Column:
TColumn);
    procedure
SpeedButton13Click(Sender:
TObject);
    procedure
SpeedButton12Click(Sender:
TObject);
    procedure
BitBtn1Click(Sender: TObject);
    procedure
SpeedButton15Click(Sender:
TObject);
    procedure
SpeedButton14Click(Sender:
TObject);
    procedure
DBLookupComboBox9Click(Sender:
TObject);
    procedure
DBLookupComboBox5Click(Sender:
TObject);

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TObject);
    private
        { Private declarations }
    public
        { Public declarations }
    end;

var
    p_transaksi: Tp_transaksi;

implementation

{$R *.dfm}

procedure
Tp_transaksi.BitBtn1Click(Sender:
TObject);
begin
bb_input.Text:=edit12.Text;
tk_input.Text:=edit13.Text;
va_input.Text:=edit14.Text;
end;

procedure
Tp_transaksi.DBGrid1CellClick(Col
umn: TColumn);
begin
edit1.Text:=dbgrid1.Fields[0].val
ue;
edit2.Text:=dbgrid1.Fields[1].val
ue;
edit3.Text:=dbgrid1.Fields[2].val
ue;
DBLookupComboBox1.KeyValue:=dbgri
d1.Fields[11].value;
DBLookupComboBox2.KeyValue:=dbgri
d1.Fields[3].value;
DBLookupComboBox3.KeyValue:=dbgri
d1.Fields[5].value;
edit4.Text:=dbgrid1.Fields[15].va
lue;
end;

```

```

procedure
Tp_transaksi.DBGrid2CellClick(Col
umn: TColumn);
begin
edit9.Text:=dbgrid2.Fields[0].val
ue;
edit6.Text:=dbgrid2.Fields[1].val
ue;
edit7.Text:=dbgrid2.Fields[2].val
ue;
DBLookupComboBox5.KeyValue:=dbgri
d2.Fields[11].value;
DBLookupComboBox6.KeyValue:=dbgri
d2.Fields[3].value;
DBLookupComboBox7.KeyValue:=dbgri
d2.Fields[5].value;
edit8.Text:=dbgrid2.Fields[15].va
lue;
end;

procedure
Tp_transaksi.DBGrid3CellClick(Col
umn: TColumn);
begin
edit9.Text:=dbgrid3.Fields[0].val
ue;
edit6.Text:=dbgrid3.Fields[1].val
ue;
edit7.Text:=dbgrid3.Fields[2].val
ue;
DBLookupComboBox5.KeyValue:=dbgri
d3.Fields[11].value;
DBLookupComboBox6.KeyValue:=dbgri
d3.Fields[3].value;
DBLookupComboBox7.KeyValue:=dbgri
d3.Fields[5].value;
edit8.Text:=dbgrid3.Fields[15].va
lue;
edit9.Visible:=true;
end;

procedure
Tp_transaksi.DBGrid4CellClick(Col
umn: TColumn);

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begin
edit10.Text:=dbgrid4.Fields[0].value;
edit11.Text:=dbgrid4.Fields[1].value;
DBLookupComboBox9.KeyValue:=dbgrid4.Fields[2].value;
edit12.Text:=dbgrid4.Fields[6].value;
edit13.Text:=dbgrid4.Fields[7].value;
edit14.Text:=dbgrid4.Fields[8].value;
edit15.Text:=dbgrid4.Fields[9].value;
end;

procedure
Tp_transaksi.DBGrid5CellClick(Column: TColumn);
begin
//edit10.Text:=dbgrid5.Fields[0].value;
//edit11.Text:=dbgrid5.Fields[1].value;
//DBLookupComboBox9.KeyValue:=dbgrid3.Fields[2].value;
//edit12.Text:=dbgrid5.Fields[6].value;
//edit13.Text:=dbgrid5.Fields[7].value;
//edit14.Text:=dbgrid5.Fields[8].value;
//edit15.Text:=dbgrid5.Fields[9].value;
end;

procedure
Tp_transaksi.DBLookupComboBox3Click(Sender: TObject);
begin
dblookupcombobox4.KeyValue:=dblookupcombobox3.KeyValue;
edit3.Text:=
dblookupcombobox4.text+'-
'+'+'+FORMATDATETIME('ddmmyy',now)
;
end;

procedure
Tp_transaksi.DBLookupComboBox5Click(Sender: TObject);
begin
dblookupcombobox11.KeyValue:=dblookupcombobox5.KeyValue;
edit36.Text:=dblookupcombobox11.text;
end;

procedure
Tp_transaksi.DBLookupComboBox7Click(Sender: TObject);
begin
dblookupcombobox8.KeyValue:=dblookupcombobox7.KeyValue;
edit7.Text:=
dblookupcombobox8.text+'-
'+'+'+FORMATDATETIME('ddmmyy',now)
;
end;

procedure
Tp_transaksi.DBLookupComboBox9Click(Sender: TObject);
begin
dblookupcombobox10.KeyValue:=
dblookupcombobox9.KeyValue;
edit34.Text:=dblookupcombobox10.text;
end;

procedure
Tp_transaksi.SpeedButton10Click(Sender: TObject);

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ender: TObject);
var
id_proses,sql:string;
begin
if messageDlg('anda yakin
menghapus data proses Barang
ini..?',
                mtConfirmation,
                [mbYes,mbNo],0) =
mrYes Then
id_proses:= edit10.text ;

sql := 'DELETE FROM k_proses
WHERE id_proses=
'+quotedstr(id_proses)+'';

ADOQuery_vproses.Close;
ADOQuery_vproses.SQL.Text:=sql;
ADOQuery_vproses.ExecSQL;
ADOQuery_vproses.close;
ADOQuery_vproses.SQL.Text:='SELEC
T * from v_proses ';

ADOQuery_vproses.Close;
ADOQuery_vproses.Open;
showmessage('...data proses
Barang berhasil dihapus...!!!');

edit10.text :='' ;
edit11.text:='';
//dblookupcombobox9.KeyValue ;
edit12.text:='' ;
edit13.text:='' ;
edit14.text :='' ;
edit15.text :='' ;

end;
procedure
Tp_transaksi.SpeedButton11Click(S
ender: TObject);
var
id_proses,tanggal_proses,id_brg,q
uota_brg,tk_kekotoran,v_air,qty_k
h,sql,sql2:string;
masuk,proses:integer;
begin

edit35.text := edit12.text ;
proses:= strtoint(edit35.text) ;
masuk:= strtoint(edit34.text) ;
if (proses)< 0 then
begin
MessageDlg('maaf Quota barang
proses tidak boleh minus...!!!',
mtError, [mbOk], 0);
exit;
end;

if (proses)= 0 then
begin
MessageDlg('maaf Quota barang
proses tidak boleh kosong...!!!',
mtError, [mbOk], 0);
exit;
end;

if (proses)>(masuk) then
begin
MessageDlg('maaf Inputan Quota
barang tidak boleh lebih dari
quota persediaan barang
masuk...!!!', mtError, [mbOk], 0);
exit;
end;

id_proses:= edit10.text ;
tanggal_proses:=edit11.text;
id_brg:=
dblookupcombobox9.KeyValue ;
quota_brg:= edit12.text ;
tk_kekotoran:= edit13.text ;
v_air:= edit14.text ;
qty_kh:= edit15.text ;

sql:='insert INTO k_proses VALUES

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('+quotedstr(id_proses)+'+'+quote
dstr(tanggal_proses)+'+'+quotedst
r(id_brg)+'+'+quotedstr(quota_brg
)+'+'+quotedstr(tk_kekotoran)+'+'
+quotedstr(v_air)+'+'+quotedstr(q
ty_kh)+'')';
ADOQuery_vproses.Close;
ADOQuery_vproses.SQL.Text:=sql;
ADOQuery_vproses.ExecSQL;
ADOQuery_vproses.close;
ADOQuery_vproses.SQL.Text:='SELEC
T * from v_proses whwre
tanggal_proses='+quotedstr(tangga
l_proses)+'';

ADOQuery_vproses.Close;
ADOQuery_vproses.Open;
showmessage('...data proses
Barang berhasil
disimpan...!!!');

edit10.text :='' ;
edit11.text:='';
//dblookupcombobox9.KeyValue ;
edit12.text:='' ;
edit13.text:='' ;
edit14.text :='' ;
edit15.text :='' ;

sql2:=' SELECT * from
v_sisaproses ' ;
ADOQuery_v_totalmasuk.Close;
ADOQuery_v_totalmasuk.SQL.Text:=s
ql2;
ADOQuery_v_totalmasuk.ExecSQL;
ADOQuery_v_totalmasuk.close;
ADOQuery_v_totalmasuk.SQL.Text:=
SELECT * from v_sisaproses ' ;

ADOQuery_v_totalmasuk.Close;
ADOQuery_v_totalmasuk.Open;
edit34.text:='0';
end;

```

```

procedure
Tp_transaksi.SpeedButton12Click(S
ender: TObject);
var
fbb_ringan_a,fbb_sedang_a,fbb_sed
ang3,fbb_sedang4,fbb_berat_a
,ftk_kotor_a,ftk_skotor_a,
fva_sedikit_a,fva_sedang_a,fva_se
dang3,fva_sedang4,fva_banyak_a:st
ring;
bb_barang,tk_kekotoran,v_air,kh_k
kosentrat ,
fbb_max,fbb_tengah,fbb_min,
ftk_max,ftk_min, ftk_kotor
,ftk_skotor,
fva_max,fva_tengah,fva_min,
fkh_max,fkh_tengah,fkh_min
,fbb_ringan,fbb_sedang_1,fbb_seda
ng_2,fbb_banyak,
fva_sedikit,fva_sedang_1,fva_seda
ng_2,fva_banyak,
bbl_ringan,bbl_sedang,bbl_berat,
tk1_kotor,tk1_skotor,
val_sedikit,val_sedang,val_banyak
,
a1,a2,a3,a4,a5,a6,a7,a8,a9,a10,a1
1,a12,a13,a14,a15,a16,a17,a18 ,
za1,za2,za3,za4,za5,za6,za7,za8,z
a9,za10,za11,za12,za13,za14,za15,
za16,za17,za18,
x4_a1,x4_a2,x4_a3,x4_a4,x4_a5,x4_
a6,x4_a7_1,x4_a7_2,x4_a8_1,x4_a8_
2
,x4_a9_1,x4_a9_2,x4_a10_1,x4_a10_
2,x4_a11_1,x4_a11_2,x4_a12_1,x4_a
12_2
,x4_a13,x4_a14,x4_a15,x4_a16,x4_a
17,x4_a18,
x4_b1,x4_b2,x4_b3,x4_b4,x4_b5,x4_
b6,x4_b7,x4_b8,x4_b9,x4_b10,x4_b1
1,x4_b12,x4_b13,
x4_b14,x4_b15,x4_b16,x4_b17,x4_b1
^

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```

k1,k2,k3,k4,k5,k6,k7,k8,k9,k10,k1
1,k12,k13,k14,k15,k16,k17,k18,
hasil2,k_total,z_total:real;
batas1,batas11,batas12,batas2,bat
as21,batas22,batas3,batas31,batas
32:integer;
begin

edit38.Text:=(bb_input.Text);
edit39.Text:=(tk_input.Text);
edit40.Text:=(va_input.Text);

batas1:=strtoint(edit38.Text);
batas11:=
StrToInt(dbedit13.Text);
batas12:=
StrToInt(dbedit15.Text);

batas2:=strtoint(edit39.Text);
batas21:=
StrToInt(dbedit16.Text);
batas22:=
StrToInt(dbedit17.Text);

batas3:=strtoint(edit40.Text);
batas31:=
StrToInt(dbedit18.Text);
batas32:=
StrToInt(dbedit20.Text);

if (batas1)< 0 then
begin
  MessageDlg('maaf bobot barang
tidak boleh minus...!!', mtError,
[mbOk], 0);
  exit;
end;

if (batas1)= 0 then
begin
  MessageDlg('maaf bobot barang
tidak boleh kosong...!!',
mtError, [mbOk], 0);
  exit;
end;

if (batas1)< (batas11) then
begin
  MessageDlg('maaf Inputan bobot
barang tidak boleh kurang dari
batas minimum...!!', mtError,
[mbOk], 0);
  exit;
end;

if (batas1)>(batas12) then
begin
  MessageDlg('maaf Inputan bobot
barang tidak boleh lebih dari
batas maximum...!!', mtError,
[mbOk], 0);
  exit;
end;

if (batas2)< 0 then
begin
  MessageDlg('maaf Tingkat
Kekotoran tidak boleh
minus...!!', mtError, [mbOk], 0);
  exit;
end;

if (batas2)= 0 then
begin
  MessageDlg('maaf Tingkat
Kekotoran tidak boleh
kosong...!!', mtError, [mbOk],
0);
  exit;
end;

if (batas2)< (batas21) then
begin
  MessageDlg('maaf Inputan
Tingkat Kekotoran tidak boleh
kurang dari batas minimum...!!',
mtError, [mbOk], 0);
  exit;
end;

```

```

end;
if (batas2)>(batas22) then
begin
  MessageDlg('maaf Inputan
Tingkat Kekotoran tidak boleh
lebih dari batas maximum...!!',
mtError, [mbOk], 0);
  exit;
end;
if (batas3)< 0 then
begin
  MessageDlg('maaf Volume Air
tidak boleh minus...!!', mtError,
[mbOk], 0);
  exit;
end;

if (batas3)= 0 then
begin
  MessageDlg('maaf Volume Air
tidak boleh kosong...!!',
mtError, [mbOk], 0);
  exit;
end;
if (batas3)< (batas31) then
begin
  MessageDlg('maaf Inputan Volume
Air tidak boleh kurang dari batas
minimum...!!', mtError, [mbOk],
0);
  exit;
end;
if (batas3)>(batas32) then
begin
  MessageDlg('maaf Inputan Volume
Air tidak boleh lebih dari batas
maximum...!!', mtError, [mbOk],
0);
  exit;
end;
//inputan data
bb_barang:=StrToFloat(bb_input.Te

```

```

xt);
tk_kekotoran:=StrToFloat(tk_input
.Text);
v_air:=StrToFloat(va_input.Text);

//inputan fungsi keanggotaan
Bobot BArang
fbb_min:=
StrToFloat(dbedit13.Text);
fbb_tengah:=
StrToFloat(dbedit14.Text);
fbb_max:=
StrToFloat(dbedit15.Text);

//Perhitungan Kriteria bobot
Barang
fbb_ringan :=( fbb_tengah-
bb_barang)/(fbb_tengah-fbb_min)
;
fbb_sedang_1 := (bb_barang-
fbb_min)/(fbb_tengah-fbb_min) ;
fbb_sedang_2 :=( fbb_max-
bb_barang)/(fbb_max-fbb_tengah)
;
fbb_banyak := ( bb_barang-
fbb_tengah)/(fbb_max-fbb_tengah)
;

//perhitungan bobot kriteria
bobot barang ringan

if bb_barang <= fbb_min then
bb_ringan.text:='1' ;
if bb_barang >= fbb_tengah then
bb_ringan.text:='0';
if bb_barang < fbb_tengah then
bb_ringan.text:=FloatToStr(fbb_ri
ngan)
else bb_ringan.text:='1' ) ;
if bb_barang <= fbb_min then
bb_ringan.text:='1' ;
if bb_barang >= fbb_tengah then
bb_ringan.text:='0';

```

```

fbb_ringan_a:=bb_ringan.Text;

//perhitungan bobot Barang Sedang
if bb_barang > fbb_max then
bb_sedang_a.text:='1' ;
if bb_barang > fbb_tengah then
bb_sedang_a.text:='1' ;
if bb_barang <= fbb_min then
bb_sedang_a.text:='0' ;
if bb_barang < fbb_tengah then
bb_sedang_a.text:=FloatToStr(fbb_
sedang_1)
else bb_sedang_a.text:=('1') ;
if bb_barang <= fbb_min then
bb_sedang_a.text:='0' ;
if bb_barang > fbb_tengah then
bb_sedang_a.text:='1' ;
if bb_barang > fbb_max then
bb_sedang_a.text:='1' ;

if bb_barang >= fbb_max then
bb_sedang_b.text:='0' ;
if bb_barang <= fbb_min then
bb_sedang_b.text:='1' ;
if bb_barang <= fbb_tengah then
bb_sedang_b.text:='1' ;
if bb_barang < fbb_max then
bb_sedang_b.text:=FloatToStr(fbb_
sedang_2)
else bb_sedang_b.text:=('0') ;
if bb_barang >= fbb_max then
bb_sedang_b.text:='0' ;
if bb_barang <= fbb_tengah then
bb_sedang_b.text:='1' ;
if bb_barang <= fbb_min then
bb_sedang_b.text:='1' ;

fbb_sedang3:=bb_sedang_a.Text;
fbb_sedang4:=bb_sedang_b.Text;
if fbb_sedang3 <fbb_sedang4 then
bb_sedang.text:= (fbb_sedang3)

else
bb_sedang.text:=(fbb_sedang4) ;

fbb_sedang_a:= bb_sedang.text;

//perhitungan Kriteria bobot
barang Berat
if bb_barang >= fbb_max then
bb_berat.text:='1' ;
if bb_barang <= fbb_tengah then
bb_berat.text:='0' ;
if bb_barang > fbb_tengah then
bb_berat.text:=FloatToStr(fbb_ban
yak)
else bb_berat.text:=('1') ;
if bb_barang >= fbb_max then
bb_berat.text:='1' ;
if bb_barang <= fbb_tengah then
bb_berat.text:='0' ;

fbb_berat_a:=bb_berat.Text;

//inputan fungsi keanggotaan
Tingkat Kekotoran
ftk_min:=
StrToFloat(dbedit16.Text);
ftk_max:=
StrToFloat(dbedit17.Text);

//Perhitungan Kriteria Tingkat
Kekotoran

ftk_kotor:=( ftk_max-
tk_kekotoran)/(ftk_max-ftk_min)
;
ftk_skotor :=(tk_kekotoran-
ftk_min)/(ftk_max-ftk_min) ;

//perhitungan bobot kriteria
Tingkat Kekekotoran kotor
if tk_kekotoran <= ftk_min then
tk_kotor.text:='1' ;

```

```

if tk_kekotoran >= ftk_max then
tk_kotor.text:='0';
if tk_kekotoran < ftk_max then
tk_kotor.text:=FloatToStr(ftk_kotor)
else tk_kotor.text:='1' ;
if tk_kekotoran <= ftk_min then
tk_kotor.text:='1' ;
if tk_kekotoran >= ftk_max then
tk_kotor.text:='0';
ftk_kotor_a:=tk_kotor.Text;
//perhitungan Kriteria bobot
kriteria Tingkat Kekekotoran
Sangat kotor
if tk_kekotoran >= ftk_max then
tk_skotor.text:='1' ;
if tk_kekotoran <= ftk_min then
tk_skotor.text:='0' ;
if tk_kekotoran > ftk_min then
tk_skotor.text:=FloatToStr(ftk_skotor)
else bb_berat.text:='1' ;
if tk_kekotoran >= ftk_max then
tk_skotor.text:='1' ;
if tk_kekotoran <= ftk_min then
tk_skotor.text:='0' ;

ftk_skotor_a:=tk_skotor.Text
//inputan fungsi keanggotaan
Volume air
fva_min:=
StrToFloat(dbedit18.Text);
fva_tengah:=
StrToFloat(dbedit19.Text);
fva_max:=
StrToFloat(dbedit20.Text);

//Perhitungan Kriteria volume Air
fva_sedikit :=( fva_tengah-
v_air)/(fva_tengah-fva_min) ;
fva_sedang_1 := (v_air-
fva_min)/(fva_tengah-fva_min) ;
fva_sedang_2 :=( fva_max-
v_air)/(fva_max-fva_tengah) ;
v_air)/(fva_max-fva_tengah) ;
fva_banyak := ( v_air-
fva_tengah)/(fva_max-fva_tengah)
;

//perhitungan bobot kriteria
bobot Volume Air

if v_air <= fva_min then
va_sedikit.text:='1' ;
if v_air >= fva_tengah then
va_sedikit.text:='0';
if v_air < fva_tengah then
va_sedikit.text:=FloatToStr(fva_sedikit)
else va_sedikit.text:='1' ;
if v_air <= fva_min then
va_sedikit.text:='1' ;
if v_air >= fva_tengah then
va_sedikit.text:='0';
fva_sedikit_a:=va_sedikit.Text;

//perhitungan bobot Volume Air
Sedang
if v_air > fva_max then
va_sedang_a.text:='1' ;
if v_air > fva_tengah then
va_sedang_a.text:='1' ;
if v_air <= fva_min then
va_sedang_a.text:='0' ;
if v_air < fva_tengah then
va_sedang_a.text:=FloatToStr(fva_sedang_1)
else va_sedang_a.text:='1' ;
if v_air <= fva_min then
va_sedang_a.text:='0' ;
if v_air > fva_tengah then
va_sedang_a.text:='1' ;
if v_air > fva_max then
va_sedang_a.text:='1' ;

```

```

if v_air >= fva_max then
va_sedang_b.text:='0' ;
if v_air <= fva_min then
va_sedang_b.text:='1' ;
if v_air <= fva_tengah then
va_sedang_b.text:='1' ;
if v_air < fva_max then
va_sedang_b.text:=FloatToStr(fva_
sedang_2)
else va_sedang_b.text:=('0') ;
if v_air >= fva_max then
va_sedang_b.text:='0' ;
if v_air <= fva_tengah then
va_sedang_b.text:='1' ;
if v_air <= fva_min then
va_sedang_b.text:='1' ;
fva_sedang3:=va_sedang_a.Text;
fva_sedang4:=va_sedang_b.Text;

if fva_sedang3 <fva_sedang4 then
va_sedang.text:= (fva_sedang3)
else
va_sedang.text:=(fva_sedang4) ;

fva_sedang_a:= va_sedang.text;
//perhitungan Kriteria volume Air
Berat
if v_air >= fva_max then
va_banyak.text:='1' ;
if v_air <= fva_tengah then
va_banyak.text:='0' ;
if v_air > fva_tengah then
va_banyak.text:=FloatToStr(fva_ba
nyak)
else va_banyak.text:=('1') ;
if v_air >= fva_max then
va_banyak.text:='1' ;
if v_air <= fva_tengah then
va_banyak.text:='0' ;

fva_banyak_a:=va_banyak.Text;

```

```

//perhitungan nilai alpha
predikat 18 aturan
bb1_ringan:=
StrtoFloat(bb_ringan.Text);
bb1_sedang:=
StrtoFloat(bb_sedang.Text);
bb1_berat:=
StrtoFloat(bb_berat.Text);
tk1_kotor:=
StrtoFloat(tk_kotor.Text);
tk1_skotor:=
StrtoFloat(tk_skotor.Text);
val_sedikit:=
StrtoFloat(va_sedikit.Text);
val_sedang:=
StrtoFloat(va_sedang.Text);
val_banyak:=
StrtoFloat(va_banyak.Text);

//alpha predikat 1
if bb1_ringan< tk1_kotor then
edit16.text:=
FloatToStr(bb1_ringan)
else
edit16.text:=FloatToStr(tk1_kotor
) ;
a1:= StrToFloat(edit16.text) ;
if a1< val_sedikit then p1.text:=
FloatToStr(a1)
else
p1.text:=FloatToStr(val_sedikit)
;
//alpha predikat 2
if bb1_ringan< tk1_kotor then
edit17.text:=
FloatToStr(bb1_ringan)
else
edit17.text:=FloatToStr(tk1_kotor
) ;
a2:= StrToFloat(edit17.text) ;
if a2< val_sedang then p2.text:=
FloatToStr(a2) ;

```

```

FloatToStr(a2)
else
p2.text:=FloatToStr(val_sedang) ;

//alpha predikat 3
if bbl_ringan< tk1_kotor then
edit18.text:=
FloatToStr(bbl_ringan)
else
edit18.text:=FloatToStr(tk1_kotor
) ;
a3:= StrToFloat(edit18.text) ;

if a3< val_banyak then p3.text:=
FloatToStr(a3)
else
p3.text:=FloatToStr(val_banyak) ;

//alpha predikat4
if bbl_ringan< tk1_skotor then
edit19.text:=
FloatToStr(bbl_ringan)
else
edit19.text:=FloatToStr(tk1_skoto
r) ;
a4:= StrToFloat(edit19.text) ;

if a4< val_sedikit then p4.text:=
FloatToStr(a4)
else
p4.text:=FloatToStr(val_sedikit)
;

//alpha predikat 5
if bbl_ringan< tk1_skotor then
edit20.text:=
FloatToStr(bbl_ringan)
else
edit20.text:=FloatToStr(tk1_skoto
r) ;
a5:= StrToFloat(edit20.text) ;

if a5< val_sedang then p5.text:=
FloatToStr(a5) ;

```

```

FloatToStr(a5)
else
p5.text:=FloatToStr(val_sedang) ;

//alpha predikat 6
if bbl_ringan< tk1_skotor then
edit21.text:=
FloatToStr(bbl_ringan)
else
edit21.text:=FloatToStr(tk1_skoto
r) ;
a6:= StrToFloat(edit21.text) ;

if a6< val_banyak then p6.text:=
FloatToStr(a6)
else
p6.text:=FloatToStr(val_banyak) ;

//alpha predikat 7
if bbl_sedang< tk1_kotor then
edit22.text:=
FloatToStr(bbl_sedang)
else
edit22.text:=FloatToStr(tk1_kotor
) ;
a7:= StrToFloat(edit22.text) ;

if a7< val_sedikit then p7.text:=
FloatToStr(a7)
else
p7.text:=FloatToStr(val_sedikit)
;

//alpha predikat 8
if bbl_sedang< tk1_kotor then
edit23.text:=
FloatToStr(bbl_sedang)
else
edit23.text:=FloatToStr(tk1_kotor
) ;
a8:= StrToFloat(edit23.text) ;

if a8< val_sedang then p8.text:=
FloatToStr(a8) ;

```



```

FloatToStr(a8)
else
p8.text:=FloatToStr(val_sedang) ;

//alpha predikat 9
if bbl_sedang< tk1_kotor then
edit24.text:=
FloatToStr(bbl_sedang)
else
edit24.text:=FloatToStr(tk1_kotor
) ;
a9:= StrToFloat(edit24.text) ;

if a9< val_banyak then p9.text:=
FloatToStr(a9)
else
p9.text:=FloatToStr(val_banyak) ;

//alpha predikat10
if bbl_sedang< tk1_skotor then
edit25.text:=
FloatToStr(bbl_sedang)
else
edit25.text:=FloatToStr(tk1_skoto
r) ;
a10:= StrToFloat(edit25.text) ;

if a10< val_sedikit then
p10.text:= FloatToStr(a10)
else
p10.text:=FloatToStr(val_sedikit)
;

//alpha predikat 11
if bbl_sedang< tk1_skotor then
edit26.text:=
FloatToStr(bbl_sedang)
else
edit26.text:=FloatToStr(tk1_skoto
r) ;
a11:= StrToFloat(edit26.text) ;
if a11< val_sedang then
p11.text:= FloatToStr(a11)
,

```

```

else
p11.text:=FloatToStr(val_sedang)
;

//alpha predikat 12
if bbl_sedang< tk1_skotor then
edit27.text:=
FloatToStr(bbl_sedang)
else
edit27.text:=FloatToStr(tk1_skoto
r) ;
a12:= StrToFloat(edit27.text) ;

if a12< val_banyak then
p12.text:= FloatToStr(a12)
else
p12.text:=FloatToStr(val_banyak)
;

//alpha predikat 13
if bbl_berat< tk1_kotor then
edit28.text:=
FloatToStr(bbl_berat)
else
edit28.text:=FloatToStr(tk1_kotor
) ;
a13:= StrToFloat(edit28.text) ;

if a13< val_sedikit then
p13.text:= FloatToStr(a13)
else
p13.text:=FloatToStr(val_sedikit)
;

//alpha predikat 14
if bbl_berat< tk1_kotor then
edit29.text:=
FloatToStr(bbl_berat)
else
edit29.text:=FloatToStr(tk1_kotor
) ;
a14:= StrToFloat(edit29.text) ;
if a14< val_sedang then
p14.text:= FloatToStr(a14)
,

```

```

else
p14.text:=FloatToStr(val_sedang)
;
//alpha predikat 15
if bbl_berat< tk1_kotor then
edit30.text:=
FloatToStr(bbl_berat)
else
edit30.text:=FloatToStr(tk1_kotor)
;
a15:= StrToFloat(edit30.text) ;

if a15< val_banyak then
p15.text:= FloatToStr(a15)
else
p15.text:=FloatToStr(val_banyak)
;
//alpha predikat16
if bbl_berat< tk1_skotor then
edit31.text:=
FloatToStr(bbl_berat)
else
edit31.text:=FloatToStr(tk1_skotor)
;
a16:= StrToFloat(edit31.text) ;

if a16< val_sedikit then
p16.text:= FloatToStr(a16)
else
p16.text:=FloatToStr(val_sedikit)
;
//alpha predikat 17
if bbl_berat< tk1_skotor then
edit32.text:=
FloatToStr(bbl_berat)
else
edit32.text:=FloatToStr(tk1_skotor)
;
a17:= StrToFloat(edit32.text) ;
if a17< val_sedang then
p17.text:= FloatToStr(a17)
else

```

```

p17.text:=FloatToStr(val_sedang)
;
//alpha predikat 18
if bbl_berat< tk1_skotor then
edit33.text:=
FloatToStr(bbl_berat)
else
edit33.text:=FloatToStr(tk1_skotor)
;
a18:= StrToFloat(edit33.text) ;

if a18< val_banyak then
p18.text:= FloatToStr(a18)
else
p18.text:=FloatToStr(val_banyak)
;

//hasil Perhitungan Fire Strength
18 aturan
za1:=StrtoFloat(p1.Text);
za2:=StrtoFloat(p2.Text);
za3:=StrtoFloat(p3.Text);
za4:= StrtoFloat(p4.Text);
za5:= StrtoFloat(p5.Text);
za6:= StrtoFloat(p6.Text);
za7:= StrtoFloat(p7.Text);
za8:= StrtoFloat(p8.Text);
za9:= StrtoFloat(p9.Text);
za10:=StrtoFloat(p10.Text);
za11:=StrtoFloat(p11.Text);
za12:=StrtoFloat(p12.Text);
za13:=StrtoFloat(p13.Text);
za14:=StrtoFloat(p14.Text);
za15:=StrtoFloat(p15.Text);
za16:=StrtoFloat(p16.Text);
za17:=StrtoFloat(p17.Text);
za18:=StrtoFloat(p18.Text);

//inputan fungsi keanggotaan
Kosentrat H20

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```

fkh_min:=
StrToFloat(dbedit21.Text);
fkh_tengah:=
StrToFloat(dbedit22.Text);
fkh_max:=
StrToFloat(dbedit23.Text);

//nilai x4.1
x4_a1:= fkh_tengah-
(za1*(fkh_tengah-fkh_min));
x4_1.Text:=FloatToStr(x4_a1);

//nilai x4.2
x4_a2:= fkh_tengah-
(za2*(fkh_tengah-fkh_min));
x4_2.Text:=FloatToStr(x4_a2);

//nilai x4.3
x4_a3:= fkh_tengah-
(za3*(fkh_tengah-fkh_min));
x4_3.Text:=FloatToStr(x4_a3);

//nilai x4.4
x4_a4:= fkh_tengah-
(za4*(fkh_tengah-fkh_min));
x4_4.Text:=FloatToStr(x4_a4);

//nilai x4.5
x4_a5:= fkh_tengah-
(za5*(fkh_tengah-fkh_min));
x4_5.Text:=FloatToStr(x4_a5);

//nilai x4.6
x4_a6:= fkh_tengah-
(za6*(fkh_tengah-fkh_min));
x4_6.Text:=FloatToStr(x4_a6);

//nilai x4.7
x4_a7_1:=
fkh_min+(za7*(fkh_tengah-
fkh_min));
x4_a7_2:= fkh_max-(za7*(fkh_max-
fkh_tengah));

if bb_barang <= fbb_tengah then
x4_7.text:= FloatToStr(x4_a7_1)
else
x4_7.text:=FloatToStr(x4_a7_2) ;

//nilai x4.8
x4_a8_1:=
fkh_min+(za8*(fkh_tengah-
fkh_min));
x4_a8_2:= fkh_max-(za8*(fkh_max-
fkh_tengah));

if bb_barang <= fbb_tengah then
x4_8.text:= FloatToStr(x4_a8_1)
else
x4_8.text:=FloatToStr(x4_a8_2) ;

//nilai x4.9
x4_a9_1:=
fkh_min+(za9*(fkh_tengah-
fkh_min));
x4_a9_2:= fkh_max-(za9*(fkh_max-
fkh_tengah));

if bb_barang < fbb_tengah then
x4_9.text:= FloatToStr(x4_a9_1)
else
x4_9.text:=FloatToStr(x4_a9_2) ;

//nilai x4.10
x4_a10_1:=
fkh_min+(za10*(fkh_tengah-
fkh_min));
x4_a10_2:= fkh_max-
(za10*(fkh_max-fkh_tengah));

if bb_barang < fbb_tengah then
x4_10.text:= FloatToStr(x4_a10_1)
else
x4_10.text:=FloatToStr(x4_a10_2)
;

//nilai x4.11
--

```

```

fkh_min+(za11*(fkh_tengah-
fkh_min));
x4_a11_2:= fkh_max-
(za11*(fkh_max-fkh_tengah));

if bb_barang < fbb_tengah then
x4_11.text:= FloatToStr(x4_a11_1)
else
x4_11.text:=FloatToStr(x4_a11_2)
;
//nilai x4.12
x4_a12_1:=
fkh_min+(za12*(fkh_tengah-
fkh_min));
x4_a12_2:= fkh_max-
(za12*(fkh_max-fkh_tengah));

if bb_barang < fbb_tengah then
x4_12.text:= FloatToStr(x4_a12_1)
else
x4_12.text:=FloatToStr(x4_a12_2)
;
//nilai x4.13
x4_a13:=
fkh_tengah+(za13*(fkh_max-
fkh_tengah));
x4_13.Text:=FloatToStr(x4_a13);

//nilai x4.14
x4_a14:=
fkh_tengah+(za14*(fkh_max-
fkh_tengah));
x4_14.Text:=FloatToStr(x4_a14);
//nilai x4.15
x4_a15:=
fkh_tengah+(za15*(fkh_max-
fkh_tengah));
x4_15.Text:=FloatToStr(x4_a15);
//nilai x4.16
x4_a16:=
fkh_tengah+(za16*(fkh_max-
fkh_tengah));
x4_16.Text:=FloatToStr(x4_a16);

//nilai x4.17
x4_a17:=
fkh_tengah+(za17*(fkh_max-
fkh_tengah));
x4_17.Text:=FloatToStr(x4_a17);

//nilai x4.18
x4_a18:=
fkh_tengah+(za18*(fkh_max-
fkh_tengah));
x4_18.Text:=FloatToStr(x4_a18);

//Perkalian nilai Alpha predikat
dengan nilai x.4 ke-i
x4_b1:=StrtoFloat(x4_1.Text);
x4_b2:=StrtoFloat(x4_2.Text);
x4_b3:=StrtoFloat(x4_3.Text);
x4_b4:=StrtoFloat(x4_4.Text);
x4_b5:=StrtoFloat(x4_5.Text);
x4_b6:=StrtoFloat(x4_6.Text);
x4_b7:=StrtoFloat(x4_7.Text);
x4_b8:=StrtoFloat(x4_8.Text);
x4_b9:=StrtoFloat(x4_9.Text);
x4_b10:=StrtoFloat(x4_10.Text);
x4_b11:=StrtoFloat(x4_11.Text);
x4_b12:=StrtoFloat(x4_12.Text);
x4_b13:=StrtoFloat(x4_13.Text);
x4_b14:=StrtoFloat(x4_14.Text);
x4_b15:=StrtoFloat(x4_15.Text);
x4_b16:=StrtoFloat(x4_16.Text);
x4_b17:=StrtoFloat(x4_17.Text);
x4_b18:=StrtoFloat(x4_18.Text);

//perkalian nilai x4 ke i
dikalkikan nilai alpha predikat
ke-i
k1:= x4_b1*za1;
k2:= x4_b2*za2;
k3:= x4_b3*za3;
k4:= x4_b4*za4;

```

```

k5:= x4_b5*za5;
k6:= x4_b6*za6;
k7:= x4_b7*za7;
k8:= x4_b8*za8;
k9:= x4_b9*za9;
k10:= x4_b10*za10;
k11:= x4_b11*za11;
k12:= x4_b12*za12;
k13:= x4_b13*za13;
k14:= x4_b14*za14;
k15:= x4_b15*za15;
k16:= x4_b16*za16;
k17:= x4_b17*za17;
k18:= x4_b18*za18;

//tampilkan nilai
x1.Text:=FloatToStr(k1);
x2.Text:=FloatToStr(k2);
x3.Text:=FloatToStr(k3);
x4.Text:=FloatToStr(k4);
x5.Text:=FloatToStr(k5);
x6.Text:=FloatToStr(k6);
x7.Text:=FloatToStr(k7);
x8.Text:=FloatToStr(k8);
x9.Text:=FloatToStr(k9);
x10.Text:=FloatToStr(k10);
x11.Text:=FloatToStr(k11);
x12.Text:=FloatToStr(k12);
x13.Text:=FloatToStr(k13);
x14.Text:=FloatToStr(k14);
x15.Text:=FloatToStr(k15);
x16.Text:=FloatToStr(k16);
x17.Text:=FloatToStr(k17);
x18.Text:=FloatToStr(k18);

z_total:=
za1+za2+za3+za4+za5+za6+za7+za8+z
a9+za10+za11+za12+za13+za14+za15+
za16+za17+za18;
z.Text:=FloatToStr(z_total);
k_total:=k1+k2+k3+k4+k5+k6+k7+k8+
+k9+k10+k11+k12+k13+k14+k15+k16+k17
+k18;
k_to.Text:=FloatToStr(k_total);
hasil2:= k_total/ z_total;
hasil.Text:=FloatToStr(hasil2);
kh_input.Text:=FloatToStr(hasil2)
;
edit15.Text:=FloatToStr(hasil2);

end;

procedure
Tp_transaksi.SpeedButton13Click(S
ender: TObject);
var
sql:string;
begin
sql := 'SELECT * from k_proses';

ADOQuery_vproses.Close;
ADOQuery_vproses.SQL.Text:=sql;
ADOQuery_vproses.ExecSQL;
ADOQuery_vproses.close;
ADOQuery_vproses.SQL.Text:='SELEC
T * from v_proses ';

ADOQuery_vproses.Close;
ADOQuery_vproses.Open;

edit10.text :='' ;
edit11.text:='';
//dblookupcombobox9.KeyValue ;
edit12.text:='' ;
edit13.text:='' ;
edit14.text :='' ;
edit15.text :='' ;

end;
procedure
Tp_transaksi.SpeedButton14Click(S
ender: TObject);
begin
rvproject1.Close;

```

```

RvProject1.ProjectFile:='laporan2
.rav';
RvProject1.Execute;
end;

procedure
Tp_transaksi.SpeedButton15Click(S
ender: TObject);
begin
rvproject1.Close;
RvProject1.ProjectFile:='laporan1
.rav';
RvProject1.Execute;
end;

procedure
Tp_transaksi.SpeedButton1Click(Se
nder: TObject);
var
no_item,id_stock,sql:string;
begin
if messageDlg('anda yakin
menghapus data Barang masuk
ini..?',
                mtConfirmation,
                [mbYes,mbNo],0) =
mrYes Then
no_item:=edit2.Text;
id_stock:=edit3.Text;
sql := 'DELETE FROM k_brgmasuk
WHERE no_item=
'+quotedstr(no_item)+';

ADOQuery_v_brmasuk.Close;
ADOQuery_v_brmasuk.SQL.Text:=sql;
ADOQuery_v_brmasuk.ExecSQL;
ADOQuery_v_brmasuk.close;
ADOQuery_v_brmasuk.SQL.Text:='SEL
ECT * from v_brmasuk id_stock =
'+quotedstr(id_stock)+';

ADOQuery_v_brmasuk.Close;

```

```

ADOQuery_v_brmasuk.Open;
showmessage('...data Barang masuk
baru berhasil dihapus..!!!');

edit1.Text:='';
edit2.Text:='';
//edit3.Text:='';
edit4.Text:='';

end;

procedure
Tp_transaksi.SpeedButton2Click(Se
nder: TObject);
var
sql:string;
begin
sql:=' select* from v_brmasuk ';
ADOQuery_v_brmasuk.Close;
ADOQuery_v_brmasuk.SQL.Text:=sql;
ADOQuery_v_brmasuk.ExecSQL;
ADOQuery_v_brmasuk.close;
ADOQuery_v_brmasuk.SQL.Text:='SEL
ECT * from v_brmasuk where
id_stock = "0";

ADOQuery_v_brmasuk.Close;
ADOQuery_v_brmasuk.Open;

edit1.Text:='';
edit2.Text:='';
edit3.Text:='';
edit4.Text:='';
DBLookupComboBox1.ListFieldIndex:
=-1;
DBLookupComboBox2.ListFieldindex:
=-1;
DBLookupComboBox3.ListFieldindex:
=-1;
end;
procedure
Tp_transaksi.SpeedButton3Click(Se

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```

: TObject);
var
no_item,no_nota,sql:string;
begin
if messageDlg('anda yakin
menghapus data Barang keluar
ini..?',
                mtConfirmation,
                [mbYes,mbNo],0) =
mrYes Then
no_item:=edit6.Text;
no_nota:=edit7.Text;
sql := 'DELETE FROM k_brgkeluar
WHERE no_item=
'+quotedstr(no_item)+'';

ADOQuery_v_brkeluar.Close;
ADOQuery_v_brkeluar.SQL.Text:=sql
;
ADOQuery_v_brkeluar.ExecSQL;
ADOQuery_v_brkeluar.close;
ADOQuery_v_brkeluar.SQL.Text:='SE
LECT * from v_brkeluar where
no_nota =
'+quotedstr(no_nota)+'';

ADOQuery_v_brkeluar.Close;
ADOQuery_v_brkeluar.Open;
showmessage('...data Barang
Keluar baru berhasil
dihapus...!!!');

edit5.Text:='';
edit6.Text:='';
//edit3.Text:='';
edit8.Text:='';
                edit9.Visible:=false;
ADOQuery_barang.Close;
ADOQuery_barang.Open;
ADOQuery_konsumen.Close;
ADOQuery_konsumen.Open;
ADOQuery_pegawai.Close;
ADOQuery_pegawai.Open;
ADOQuery_supplier.Close;
ADOQuery_supplier.Open;
ADOQuery_konsumen.Close;
ADOQuery_konsumen.Open;

end;
procedure Tp_transaksi.k(Sender:
TObject);
var
tanggal_masuk,no_item,id_stock,id
_brg,id_pegawai,id_sup,qty_masuk,
sql:string;
begin
tanggal_masuk:= edit1.Text;
no_item:=edit2.Text;
id_stock:=edit3.Text;
id_brg:=
DBLookupComboBox1.KeyValue;
id_pegawai:=
DBLookupComboBox2.KeyValue;
id_sup:=
DBLookupComboBox3.KeyValue;
qty_masuk := edit4.Text;

sql:='insert INTO k_brgmasuk
VALUES
('+quotedstr(tanggal_masuk)+','+q
uotedstr(no_item)+','+quotedstr(i
d_stock)+','+quotedstr(id_brg)+'
'+quotedstr(id_pegawai)+'+quote
dstr(id_sup)+'+','+quotedstr(qty_ma
suk)+'');
ADOQuery_v_brmasuk.Close;
ADOQuery_v_brmasuk.SQL.Text:=sql;
ADOQuery_v_brmasuk.ExecSQL;
ADOQuery_v_brmasuk.close;
ADOQuery_v_brmasuk.SQL.Text:='SEL
ECT * from v_brmasuk where
id_stock =
'+quotedstr(id_stock)+'';

ADOQuery_v_brmasuk.Close;
ADOQuery_v_brmasuk.Open;
showmessage('...data Barang masuk

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showmessage('...data Barang masuk
baru berhasil disimpan...!!!');
edit1.Text:='';
edit2.Text:='';
//edit3.Text:='';
edit4.Text:='';

ADOQuery_barang.Close;
ADOQuery_barang.Open;
ADOQuery_konsumen.Close;
ADOQuery_konsumen.Open;
ADOQuery_pegawai.Close;
ADOQuery_pegawai.Open;
ADOQuery_suplier.Close;
ADOQuery_suplier.Open;
end;
procedure
Tp_transaksi.PageControl1Change(S
ender: TObject);
var
tanggal_keluar,no_item,no_nota,id
_kons,id_pegawai,id_brg,qty_kelua
r,sql:string;
begin
//tanggal_keluar:= edit5.Text;
//no_item:=edit6.Text;
//no_nota:=edit7.Text;
//id_brg:=
DBLookupComboBox5.KeyValue;
//id_pegawai:=
DBLookupComboBox6.KeyValue;
//id_kons:=
DBLookupComboBox7.KeyValue;
//qty_keluar := edit8.Text;
//sql:='insert INTO k_brgkeluar
VALUES
('+quotedstr(tanggal_keluar)+'+',
'+quotedstr(no_item)+'+',
'+quotedstr(no_nota)+'+',
'+quotedstr(id_kons)+'+',
'+quotedstr(id_pegawai)+'+',
'+quotedstr(id_brg)+'+',
'+quotedstr(qty_k
eluar)+'')';
//ADOQuery_v_brkeluar.Close;
//ADOQuery_v_brkeluar.SQL.Text:=s
ql;
//ADOQuery_v_brkeluar.ExecSQL;
//ADOQuery_v_brkeluar.close;
//ADOQuery_v_brkeluar.SQL.Text:='
SELECT * from v_brkeluar where
no_nota =
'+quotedstr(no_nota)+'';
//ADOQuery_v_brkeluar.Close;
//ADOQuery_v_brkeluar.Open;

end;

procedure
Tp_transaksi.SpeedButton5Click(Se
nder: TObject);
var
tanggal_masuk,no_item,id_stock,id
_brg,id_pegawai,id_sup,qty_masuk,
sql:string;
begin
tanggal_masuk:= edit1.Text;
no_item:=edit2.Text;
id_stock:=edit3.Text;
id_brg:=
DBLookupComboBox1.KeyValue;
id_pegawai:=
DBLookupComboBox2.KeyValue;
id_sup:=
DBLookupComboBox3.KeyValue;
qty_masuk := edit4.Text;

sql := 'UPDATE k_brgmasuk SET
tanggal_masuk='+quotedstr(tanggal
_masuk)+'',no_item='+quotedstr(no_
item)+'',id_stock='+quotedstr(id_s
tock)+'',id_brg
='+quotedstr(id_brg)+'',id_pegawai
='+quotedstr(id_pegawai)+'',id_sup
='+quotedstr(id_sup)+'',qty_masuk
='+quotedstr(qty_masuk)+' WHERE

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```

no_item='+quotedstr(no_item)+' ';

ADOQuery_v_brmasuk.Close;
ADOQuery_v_brmasuk.SQL.Text:=sql;
ADOQuery_v_brmasuk.ExecSQL;
ADOQuery_v_brmasuk.close;
ADOQuery_v_brmasuk.SQL.Text:='SELECT * from v_brmasuk';

ADOQuery_v_brmasuk.Close;
ADOQuery_v_brmasuk.Open;
showmessage('...data Barang masuk baru berhasil diubah...!!!');

edit1.Text:='';
edit2.Text:='';
//edit3.Text:='';
edit4.Text:='';
end;

procedure
Tp_transaksi.SpeedButton6Click(Sender: TObject);
begin
close;
end;

procedure
Tp_transaksi.SpeedButton7Click(Sender: TObject);
var
tanggal_keluar,no_item,no_nota,id_kons,id_pegawai,id_brg,qty_keluar,sql,sql2:string;
sis,keluar:integer;
begin

edit37.text := edit8.text ;
keluar:= strtoint(edit37.text) ;
sis:= strtoint(edit36.text) ;

if (keluar)< 0 then
begin
MessageDlg('maaf Quota barang keluar tidak boleh minus...!!!', mtError, [mbOk], 0);
exit;
end;

if (keluar)= 0 then
begin
MessageDlg('maaf Quota barang keluar tidak boleh kosong...!!!', mtError, [mbOk], 0);
exit;
end;

if (keluar)>(sis) then
begin
MessageDlg('maaf Inputan Quota barang keluar tidak boleh lebih dari quota persediaan proses barang...!!!', mtError, [mbOk], 0);
exit;
end;

tanggal_keluar:= edit5.Text;
no_item:=edit6.Text;
no_nota:=edit7.Text;
id_brg:=
DBLookupComboBox5.KeyValue;
id_pegawai:=
DBLookupComboBox6.KeyValue;
id_kons:=
DBLookupComboBox7.KeyValue;
qty_keluar := edit8.Text;

sql:='insert INTO k_brgkeluar
VALUES
('+quotedstr(tanggal_keluar)+','+
quotedstr(no_item)+','+quotedstr(
no_nota)+','+quotedstr(id_kons)+
','+quotedstr(id_pegawai)+','+quot

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```

(id_brg)+'','+quotedstr(qty_keluar
)')';
ADOQuery_v_brkeluar.Close;
ADOQuery_v_brkeluar.SQL.Text:=sql
;
ADOQuery_v_brkeluar.ExecSQL;
ADOQuery_v_brkeluar.close;
ADOQuery_v_brkeluar.SQL.Text:='SE
LECT * from v_brkeluar where
no_nota =
'+quotedstr(no_nota)+'';

ADOQuery_v_brkeluar.Close;
ADOQuery_v_brkeluar.Open;
showmessage('...data Barang
Keluar baru berhasil
disimpan...!!!');

edit5.Text:='';
edit6.Text:='';
//edit3.Text:='';
edit8.Text:='';
        edit9.Visible:=false;

ADOQuery_barang.Close;
ADOQuery_barang.Open;
ADOQuery_konsumen.Close;
ADOQuery_konsumen.Open;
ADOQuery_pegawai.Close;
ADOQuery_pegawai.Open;
ADOQuery_suplier.Close;
ADOQuery_suplier.Open;
ADOQuery_konsumen.Close;
ADOQuery_konsumen.Open;

sql2:='SELECT * from
sisa_keluar';
ADOQuery_proses.Close;
ADOQuery_proses.SQL.Text:=sql2;
ADOQuery_proses.ExecSQL;
ADOQuery_proses.close;
ADOQuery_proses.SQL.Text:='SELECT
* from sisa_keluar';
ADOQuery_proses.Close;
ADOQuery_proses.Open;
edit36.text:='0';
end;
procedure
Tp_transaksi.SpeedButton9Click(Se
nder: TObject);
var
sql:string;
begin
sql:=' select* from v_brkeluar ';
ADOQuery_v_brkeluar.Close;
ADOQuery_v_brkeluar.SQL.Text:=sql
;
ADOQuery_v_brkeluar.ExecSQL;
ADOQuery_v_brkeluar.close;
ADOQuery_v_brkeluar.SQL.Text:='SE
LECT * from v_brkeluar where
no_nota = "0"';
ADOQuery_v_brkeluar.Close;
ADOQuery_v_brkeluar.Open;
edit5.Text:='';
edit6.Text:='';
edit7.Text:='';
edit8.Text:='';
DBLookupComboBox5.ListFieldIndex:
=-1;
DBLookupComboBox6.ListFieldindex:
=-1;
DBLookupComboBox7.ListFieldindex:
=-1;
        edit9.Visible:=false;
end;

procedure
Tp_transaksi.Timer1Timer(Sender:
TObject);
var
kanan,atas:Boolean;
begin
edit11.Text:=FormatDateTime('

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```
edit11.Text:='' +FORMATDATETIME('y
yyy-mm-dd',now);
edit5.Text:='' +FORMATDATETIME('yy
yy-mm-dd',now);
edit1.Text:='' +FORMATDATETIME('yy
yy-mm-dd',now);
//edit5.Text:='' +FORMATDATETIME('
yymmdd',now);
  If atas then // Scroll ke atas
  begin
      Memo2.Top:=Memo2.Top+1;
      if Memo2.Top>=0 then
Memo2.Top:=-
Memo2.Height+Panel9.Height;
      end
  else // Scroll ke bawah
  begin
      Memo2.Top:=Memo2.Top-1;
      if Memo2.Top<=Panel9.Height-
Memo2.Height then Memo2.Top:=0;

end;
end;

end.
```