Program: 50420562 – 1IA01

```
Unit1.pas
              ⊒<u>⊠</u> Unit1
■ TForm1
Variables/Constants
                      unit Unit1;
                      interface
                      uses
                        Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
                       Dialogs, StdCtrls;
                      type
                        TForm1 = class(TForm)
                         perulangan_box: TGroupBox;
                          Label1: TLabel;
                         Label2: TLabel;
                          Memo1: TMemo;
                         input_perulangan: TEdit;
                          ulang perulangan: TEdit;
                         btn_while: TButton;
                          btn_repeat: TButton;
                          btn_for_do: TButton;
                          btn_downto: TButton;
                          Button5: TButton;
                          Button6: TButton;
                          procedure btn_whileClick(Sender: TObject);
                          procedure btn for doClick(Sender: TObject);
procedure btn downtoClick(Sender: TObject);
                          procedure Button5Click(Sender: TObject);
                          procedure Button6Click(Sender: TObject);
                        private
                          { Private declarations }
                        public
                         { Public declarations }
                        end:
                      var
                        Form1: TForm1;
                      implementation
```

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IForm1

Variables/Constants

Uses

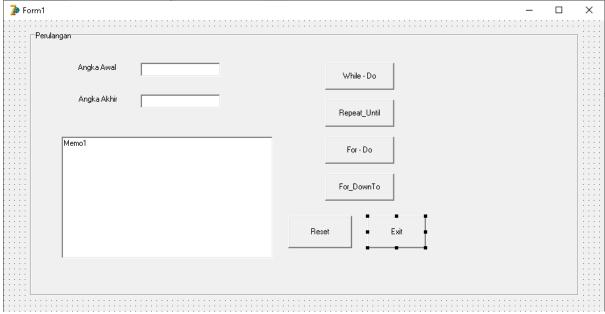
```
——≝ Unit1
        implementation
        { $R *.dfm}
        procedure TForm1.btn_whileClick(Sender: TObject);
        var
        E, F:
        Integer;
        begin
          memo1.Clear;
          E:= StrToInt
          (input_perulangan.Text); F:=1;
          while F <>
            StrToInt(ulang_perulangan.Text) do
              memo1.Lines.Add('Perulangan ke- '+IntToStr(F)+' = '+IntToStr(E));
              E:=E+1;
              F := F+1;
              end;
        end;
        procedure TForm1.btn_for_doClick(Sender: TObject);
        var E, F :
        Integer;
        begin
          memo1.Clear;
          E:= StrToInt (input_perulangan.Text);
          for F:= 1 to StrToInt(ulang_perulangan.Text) do
            memo1.Lines.Add('Perulangan ke-'+IntToStr(F)+' = '+IntToStr(E));
            E:=E+1;
            end;
        end;
```

procedure TForm1.btn downtoClick(Sender: TObject);

50: 38 Modified Insert \Code \Diagram /

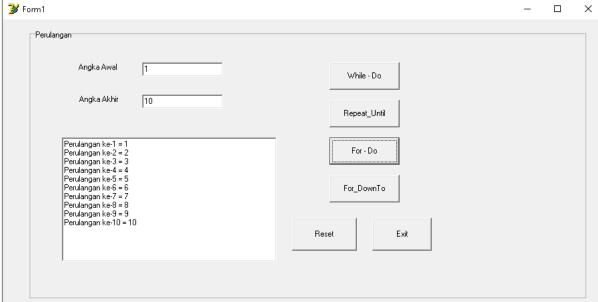
var E,F: Integer;

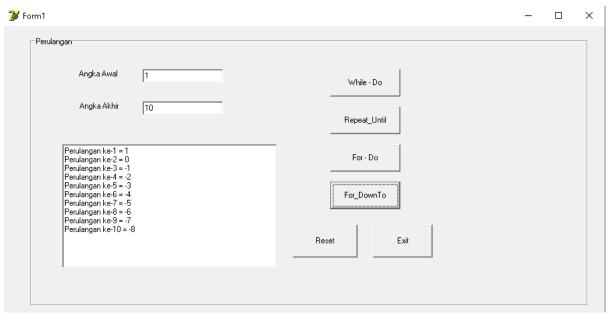
```
uniti.pas
             <u>⊐</u> Unit1
∃ N TForm1
                         memo1.Lines.Add('Perulangan ke-'+IntToStr(F)+' = '+IntToStr(E));
∃- 🛅 Variables/Constants
                         E:= E+1;
- Uses
                         end;
                     end;
                     procedure TForm1.btn downtoClick(Sender: TObject);
                     var E,F: Integer;
                     begin
                       memo1.Clear;
                       E:= StrToInt (input_perulangan.Text);
                       F:= 1;
                       for E:= E downto (StrToInt(input_perulangan.Text) -
                       StrToInt(ulang_perulangan.Text)+1) do
                       begin
                       memo1.Lines.Add('Perulangan ke-'+IntToStr(F)+' = '+IntToStr(E));
                       F := F+1;
                       end;
                     end;
                     procedure TForm1.Button5Click(Sender: TObject);
                     memo1.Clear;
                     input_perulangan.Text :='';
                     ulang_perulangan.Text :='';
                     end:
                     procedure TForm1.Button6Click(Sender: TObject);
                     begin
                     close;
                     end;
                     end;
                     end.
                  <
```

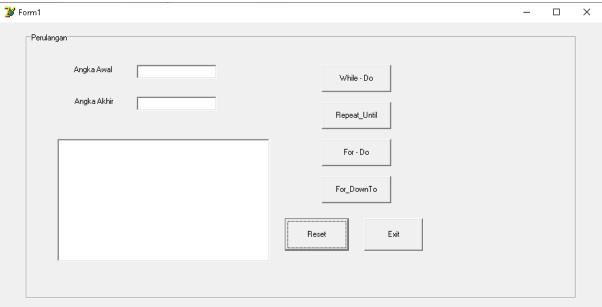


Output Program:









```
unit Unit1;
interface
uses
Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
 Dialogs, StdCtrls;
type
 TForm1 = class(TForm)
  perulangan_box: TGroupBox;
  Label1: TLabel;
  Label2: TLabel;
  Memo1: TMemo;
  input_perulangan: TEdit;
  ulang_perulangan: TEdit;
  btn_while: TButton;
  btn_repeat: TButton;
  btn_for_do: TButton;
  btn_downto: TButton;
  Button5: TButton;
  Button6: TButton;
  procedure btn_whileClick(Sender: TObject);
  procedure btn_for_doClick(Sender: TObject);
  procedure btn_downtoClick(Sender: TObject);
  procedure Button5Click(Sender: TObject);
  procedure Button6Click(Sender: TObject);
 private
  { Private declarations }
 public
  { Public declarations }
```

```
end;
var
 Form1: TForm1;
implementation
{$R *.dfm}
procedure TForm1.btn_whileClick(Sender: TObject);
var
E, F:
Integer;
begin
memo1.Clear;
E:= StrToInt
(input_perulangan.Text); F:=1;
while F <>
  StrToInt(ulang_perulangan.Text) do
  begin
   memo1.Lines.Add('Perulangan ke- '+IntToStr(F)+' = '+IntToStr(E));
   E:= E+1;
   F:= F+1;
   end;
end;
procedure TForm1.btn_for_doClick(Sender: TObject);
var E, F:
Integer;
begin
```

```
memo1.Clear;
 E:= StrToInt (input_perulangan.Text);
for F:= 1 to StrToInt(ulang_perulangan.Text) do
 begin
  memo1.Lines.Add('Perulangan ke-'+IntToStr(F)+' = '+IntToStr(E));
  E:= E+1;
  end;
end;
procedure TForm1.btn_downtoClick(Sender: TObject);
var E,F: Integer;
begin
memo1.Clear;
E:= StrToInt (input_perulangan.Text);
F:= 1;
for E:= E downto (StrToInt(input_perulangan.Text)-
StrToInt(ulang_perulangan.Text)+1) do
 begin
 memo1.Lines.Add('Perulangan ke-'+IntToStr(F)+' = '+IntToStr(E));
 F:= F+1;
 end;
end;
procedure TForm1.Button5Click(Sender: TObject);
begin
memo1.Clear;
input_perulangan.Text :=";
ulang_perulangan.Text :=";
end;
```

procedure TForm1.Button6Click(Sender: TObject);	
begin	
begin	
close;	
end;	
end;	
end.	