

TUGAS PENGANTAR TEKNOLOGI INFORMASI

MODUL 6

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Kelas : TINFC-2023-04

TEKNIK INFORMATIKA
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PostTest

1. Buatlah form penghitungan matematika berikut ini dan kode programnya

```
unit Unit1;
```

```
interface
```

```
uses
```

```
Winapi.Windows, Winapi.Messages, System.SysUtils, System.Variants, System.Classes,  
Vcl.Graphics,
```

```
Vcl.Controls, Vcl.Forms, Vcl.Dialogs, Vcl.StdCtrls;
```

```
type
```

```
TForm1 = class(TForm)
```

```
Label1: TLabel;
```

```
Label2: TLabel;
```

```
Label3: TLabel;
```

```
Edit1: TEdit;
```

```
Edit2: TEdit;
```

```
Edit3: TEdit;
```

```
Button1: TButton;
```

```
Button2: TButton;
```

```
Button3: TButton;
```

```
procedure Button1Click(Sender: TObject);
```

```
procedure Button2Click(Sender: TObject);
```

```
procedure Button3Click(Sender: TObject);
```

```
private
```

```
{ Private declarations }
```

```
public
```

```
{ Public declarations }
```

```
end;
```

var

Form1: TForm1;

implementation

{ \$R *.dfm }

procedure TForm1.Button1Click(Sender: TObject);

begin

var

A, B, result: Integer;

begin

A := StrToIntDef(Edit1.Text, 0);

B := StrToIntDef(Edit2.Text, 0);

result := A + B;

Edit3.Text := IntToStr(result);

end;

end;

procedure TForm1.Button2Click(Sender: TObject);

begin

var

A, B, result: Integer;

begin

A := StrToIntDef(Edit1.Text, 0);

B := StrToIntDef(Edit2.Text, 1); // Menghindari pembagian oleh nol

result := A div B; // Pembagian

Edit3.Text := IntToStr(result);

end;

end;

```
procedure TForm1.Button3Click(Sender: TObject);
```

```
begin
```

```
var
```

```
    A, B, result: Integer;
```

```
begin
```

```
    A := StrToIntDef(Edit1.Text, 0);
```

```
    B := StrToIntDef(Edit2.Text, 0);
```

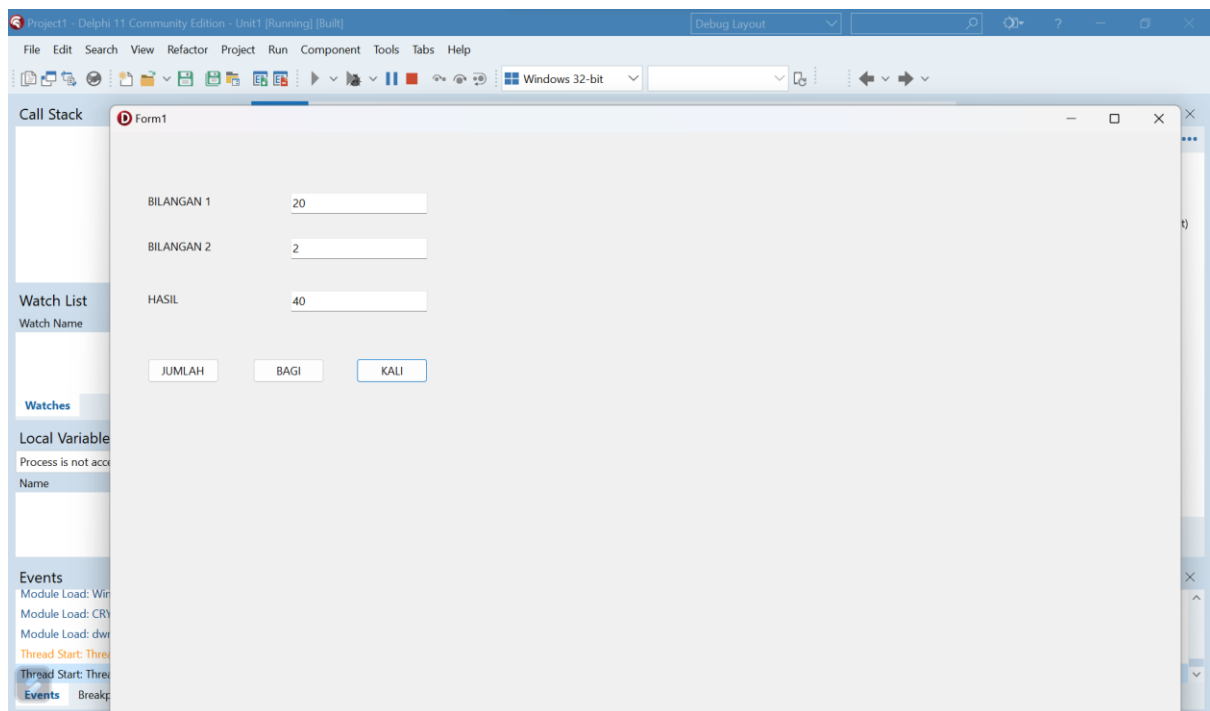
```
    result := A * B; // Perkalian
```

```
    Edit3.Text := IntToStr(result);
```

```
end;
```

```
end;
```

```
end.
```



Pertanyaan dan Tugas

1. Buatlah program untuk menampilkan gaji bersih seorang pns dengan ketentuan :

Golongan 1	Gaji pokok Rp. 3.000.000,-	Tunjangan Rp. 700.000,-
Golongan 2	Gaji pokok Rp. 2.500.000,-	Tunjangan Rp. 600.000,-
Golongan 3	Gaji pokok Rp. 2.000.000,-	Tunjangan Rp. 500.000,-

Tunjangan istri jika sudah menikah sebesar Rp. 500.0000,-, dan jika memiliki anak maka setiap anak mendapat tunjangan sebesar Rp. 250.000,-

unit Unit1;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
Dialogs, StdCtrls;

type

TForm1 = class(TForm)

Label1: TLabel;

Edit1: TEdit;

Label2: TLabel;

Edit2: TEdit;

Label3: TLabel;

Edit3: TEdit;

Button1: TButton;

Edit4: TEdit;

procedure Button1Click(Sender: TObject);

private

function HitungGaji(Golongan, StatusMenikah, JumlahAnak: Integer): Real;

public

end;

var

Form1: TForm1;

implementation

{SR *.dfm}

```
function TForm1.HitungGaji(Golongan, StatusMenikah, JumlahAnak: Integer): Real;
```

```
var
```

```
    GajiPokok, Tunjangan, TunjanganIstri, TunjanganAnak, GajiBersih: Real;
```

```
begin
```

```
    case Golongan of
```

```
        1: begin
```

```
            GajiPokok := 3000000;
```

```
            Tunjangan := 700000;
```

```
        end;
```

```
        2: begin
```

```
            GajiPokok := 2500000;
```

```
            Tunjangan := 600000;
```

```
        end;
```

```
        3: begin
```

```
            GajiPokok := 2000000;
```

```
            Tunjangan := 500000;
```

```
        end;
```

```
    else
```

```
        begin
```

```
            ShowMessage('Maaf, Golongan Tidak Valid.');
```

```
            Result := 0;
```

```
            Exit;
```

```
        end;
```

```
    end;
```

```
    case StatusMenikah of
```

```

0 : begin
    TunjanganIstri :=0;
    TunjanganAnak :=0;
end;
1 : begin
    TunjanganIstri :=500000;
    TunjanganAnak := JumlahAnak * 250000;
end;
else
begin
    ShowMessage('Maaf, Status Menikah Tidak Valid.');
```

Result := 0;

Exit;

end;

end;

// Hitung gaji dan tunjangan

GajiBersih := GajiPokok + tunjangan + tunjanganIstri + tunjanganAnak;

Result := GajiBersih;

end;

procedure TForm1.Button1Click(Sender: TObject);

var

Golongan, StatusMenikah, JumlahAnak: Integer;

GajiBersih: Real;

begin

Golongan := StrToIntDef(Edit1.Text, 0);

StatusMenikah := StrToIntDef(Edit2.Text, 0);

if (StatusMenikah = 1) then

```

    JumlahAnak := StrToIntDef(Edit3.Text, 0)

else

    JumlahAnak := 0;

GajiBersih := HitungGaji(Golongan, StatusMenikah, JumlahAnak);

if GajiBersih > 0 then

    Edit4.Text := FormatFloat('#,##0', GajiBersih)

else

    Edit4.Text := 'Maaf, Input tidak valid';

end;

end.

```

