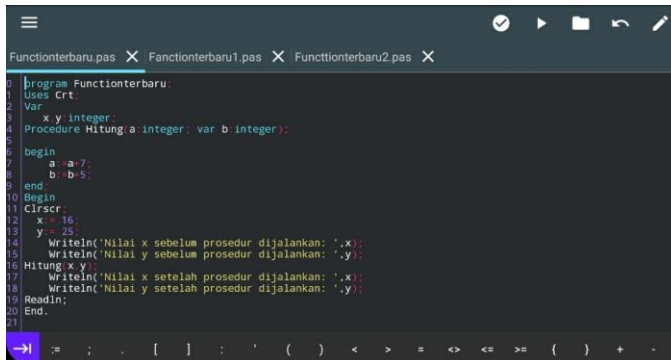


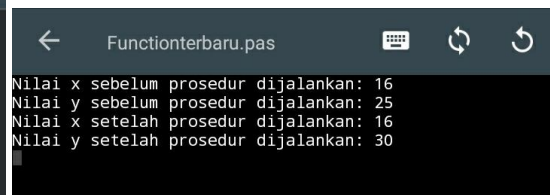
Nama: Maisarah  
NIM: 2011011220019  
Prodi: Matematika 2020  
Tugas Responsi Kalkulus I

```
1. program Functionterbaru;  
   Uses Crt;  
   Var  
     x, y: integer;  
   Procedure Hitung (a: integer; var b: integer);  
  
   begin  
     a := a+7;  
     b := b+5;  
   end;  
   Begin  
   Clrscr;  
     x := 16;  
     y := 25;  
     Writeln ('Nilai x sebelum prosedur dijalankan: ', x);  
     Writeln ('Nilai y sebelum prosedur dijalankan: ', y);  
   Hitung (x, y);  
     Writeln ('Nilai x setelah prosedur dijalankan: ', x);  
     Writeln ('Nilai y setelah prosedur dijalankan: ', y);  
   Readln;  
   End.
```



The screenshot shows a Pascal IDE with the file 'Functionterbaru.pas' open. The code is as follows:

```
1 program Functionterbaru;  
2 Uses Crt;  
3 Var  
4   x, y: integer;  
5 Procedure Hitung (a: integer; var b: integer);  
6  
7   begin  
8     a := a+7;  
9     b := b+5;  
10  end;  
11 Begin  
12 Clrscr;  
13   x := 16;  
14   y := 25;  
15   Writeln('Nilai x sebelum prosedur dijalankan: ', x);  
16   Writeln('Nilai y sebelum prosedur dijalankan: ', y);  
17   Hitung(x, y);  
18   Writeln('Nilai x setelah prosedur dijalankan: ', x);  
19   Writeln('Nilai y setelah prosedur dijalankan: ', y);  
20   Readln;  
21 End.
```



The screenshot shows the output window of the Pascal IDE for 'Functionterbaru.pas'. The output is as follows:

```
Nilai x sebelum prosedur dijalankan: 16  
Nilai y sebelum prosedur dijalankan: 25  
Nilai x setelah prosedur dijalankan: 16  
Nilai y setelah prosedur dijalankan: 30
```

```

2. program Fancionterbaru1;
   Uses Crt;
   Var
       x, y, z: real;
   Procedure Pangkat (a, b: real; var c: real);
   begin
       c := Exp (Ln(a)*b);
   end;
   Begin
   Clrscr;
       Write ('Masukkan basis yang akan dipangkatkan: ');
   Readln (x);
       Write ('Masukkan pangkat: ');
   Readln (y);
   Pangkat (x, y, z);
       Writeln ('Nilai ', x: 0: 2, '^', y: 0: 2, ' adalah: ', z: 0: 2);
   Readln;
   End.

```

The screenshot shows a Pascal IDE with three tabs: 'Fancionterbaru1.pas', 'Fancionterbaru1.pas', and 'Functiionterbaru2.pas'. The active tab 'Fancionterbaru1.pas' displays the following code:

```

0 program Fancionterbaru1;
1 Uses Crt;
2 Var
3     x, y, z: real;
4 Procedure Pangkat (a, b: real; var c: real);
5 begin
6     c := Exp (Ln(a)*b);
7 end;
8 Begin
9 Clrscr;
10 Write ('Masukkan basis yang akan dipangkatkan: ');
11 Readln (x);
12 Write ('Masukkan pangkat: ');
13 Readln (y);
14 Pangkat (x, y, z);
15 Writeln ('Nilai ', x: 0: 2, '^', y: 0: 2, ' adalah: ', z: 0: 2);
16 Readln;
17 End.
18

```

The screenshot shows a terminal window titled 'Fancionterbaru1.pas'. It displays the output of the program after execution:

```

Masukkan basis yang akan dipangkatkan: 9
Masukkan pangkat: 4
Nilai 9.00^4.00 adalah: 6561.00

```

```

3. program Functionterbaru2;
   Uses Crt;
   Var
       n: integer;
       h1, h2, lagi: char;
   Procedure Input Nilai (var nilai: integer);
   begin
       Write ('Masukkan nilai: ');
       Readln (nilai);
   end;

```

end;

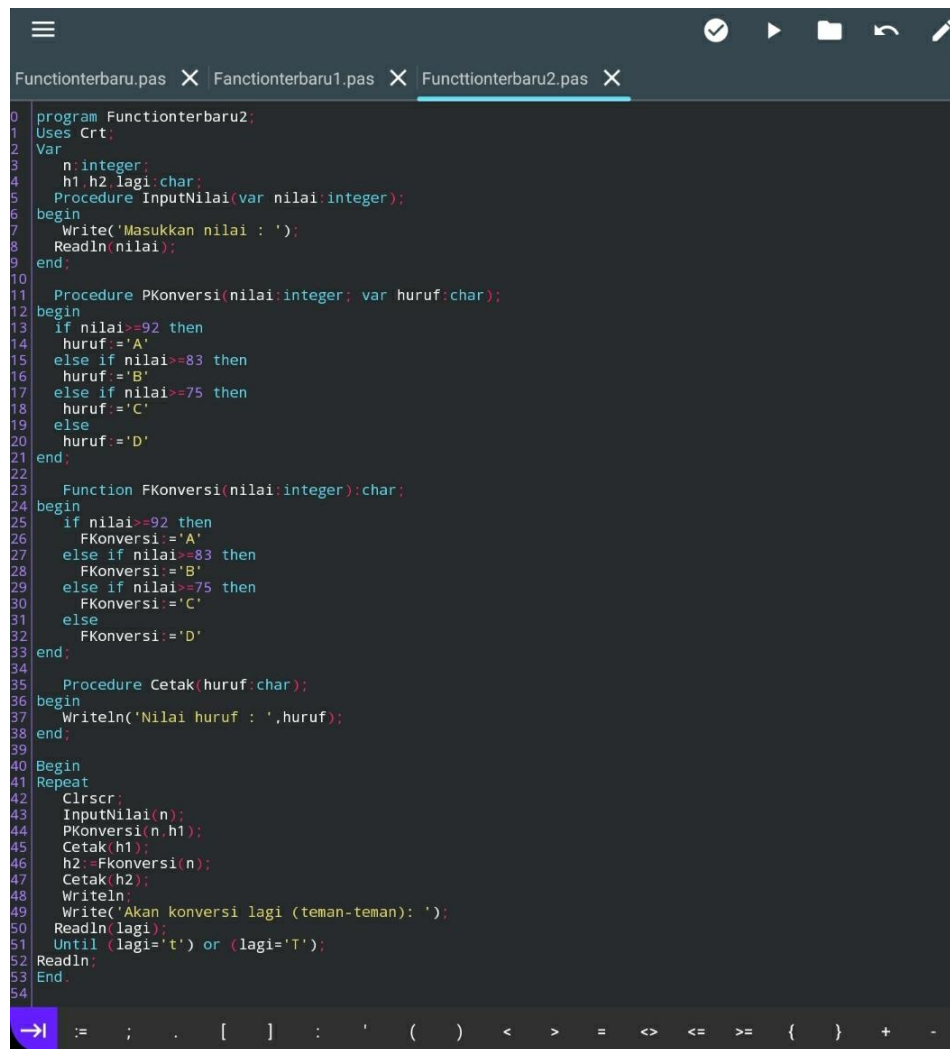
```
Procedure Pkonversi (nilai: integer; var huruf: char);  
begin  
  if nilai>=92 then  
    huruf: = 'A'  
  else if nilai>=83 then  
    huruf: ='B'  
  else if nilai>=75 then  
    huruf: ='C'  
  else  
    huruf: ='D'  
end;
```

```
Function Fkonversi (nilai: integer): char;  
begin  
  if nilai>=92 then  
    FKonversi: ='A'  
  else if nilai>=83 then  
    FKonversi: ='B'  
  else if nilai>=75 then  
    FKonversi: ='C'  
  else  
    FKonversi: ='D'  
end;
```

```
Procedure Cetak (huruf: char);  
begin  
  Writeln ('Nilai huruf: ', huruf);  
end;
```

```
Begin  
Repeat  
  Clrscr;  
  InputNilai(n);  
  Pkonversi (n, h1);  
  Cetak(h1);  
  h2: =Fkonversi(n);  
  Cetak(h2);  
  Writeln;  
  Write ('Akan konversi lagi (teman-teman): ');
```

```
Readln(lagi);
Until (lagi='t') or (lagi='T');
Readln;
End.
```



```
0 program Functionterbaru2;
1 Uses Crt;
2 Var
3   n:integer;
4   h1,h2,lagi:char;
5   Procedure InputNilai(var nilai:integer);
6   begin
7     Write('Masukkan nilai : ');
8     Readln(nilai);
9   end;
10
11   Procedure PKonversi(nilai:integer; var huruf:char);
12   begin
13     if nilai>=92 then
14       huruf:='A'
15     else if nilai>=83 then
16       huruf:='B'
17     else if nilai>=75 then
18       huruf:='C'
19     else
20       huruf:='D'
21   end;
22
23   Function FKonversi(nilai:integer):char;
24   begin
25     if nilai>=92 then
26       FKonversi:='A'
27     else if nilai>=83 then
28       FKonversi:='B'
29     else if nilai>=75 then
30       FKonversi:='C'
31     else
32       FKonversi:='D'
33   end;
34
35   Procedure Cetak(huruf:char);
36   begin
37     Writeln('Nilai huruf : ',huruf);
38   end;
39
40 Begin
41 Repeat
42   Clrscr;
43   InputNilai(n);
44   PKonversi(n,h1);
45   Cetak(h1);
46   h2:=FKonversi(n);
47   Cetak(h2);
48   Writeln;
49   Write('Akan konversi lagi (teman-teman): ');
50   Readln(lagi);
51   Until (lagi='t') or (lagi='T');
52 Readln;
53 End.
```



```
← Functionterbaru2.pas
Masukkan nilai : 78
Nilai huruf : C
Nilai huruf : C

Akan konversi lagi (teman-teman):
```