**JAWABAN TUGAS 1**

program kasir\_algo2;

uses crt;

var

a,b,tot,tot2,jmlhuang,kembali : longint;

nama : array[1..100] of string[20];

harga, jmlh : array[1..100] of longint;

begin

clrscr;

write('Masukkan Jumlah Item Yang Akan Dibeli : ');readln(b);

for a := 1 to b do

begin

write('Nama Barang ke- ',a,' : ');readln(nama[a]);

write('Jumlah Barang ke- ',a,' : ');readln(jmlh[a]);

write('Harga Barang ke- ',a,' : ');readln(harga[a]);

writeln(' ');

end;

writeln(' ');

writeln(' ');

writeln('Nama Barang | Jumlah | Total | Total

Harga | ');

writeln('=========================================================='

);

for a := 1 to b do

begin

write(nama[a]:9);

write(jmlh[a]:15);

write(harga[a]:20);

tot := jmlh[a]\*harga[a];

writeln(tot:20);

tot2 := tot2+jmlh[a]\*harga[a]

end;

writeln(' ');

writeln('Total Belanja : ',tot2);

writeln(' ');

write('Jumlah Uang Yang Dibayarkan : ');readln(jmlhuang);

writeln('Jumlah Bayar : ',tot2);

kembali := jmlhuang-tot2;

writeln('Kembali : ',kembali);

writeln(' ');

write('Terima Kasih');

readln;

end.

**JAWABAN TUGAS 2**

**No 1.**

Program array2Dsederhana;

Uses crt;

Var

A: array [1..3,1..3] of Integer;

I,J: byte;

Begin

Clrscr();

A[1,1]:=4;

A[1,2]:=5;

A[1,3]:=6;

A[2,1]:=7;

A[2,2]:=5;

A[2,3]:=7;

A[3,1]:=7;

A[3,2]:=2;

A[3,3]:=1;

For I := 1 to 3 do

Begin

For J := 1 to 3 do

Begin

Write (A[I,J]:3);

End;

Writeln;

End;

**No 2.**

Program penjumlahan\_matriks;

Uses crt;

Var

A, B, C : array [1..3,1..3] of integer;

I, j : Integer;

Begin

Clrscr;

For i := 1 to 3 do

Begin

for j := 1 to 3 do

begin

write('Masukkan Matriks A [',i,'][',j,'] :

');readln(A[i,j]);

end;

end;

writeln;

for i := 1 to 3 do

begin

for j := 1 to 3 do

begin

write('Masukkan Matriks B [',i,'][',j,'] :

');readln(B[i,j]);

end;

end;

clrscr;

writeln('Matrik A : ');

for i := 1 to 3 do

begin

for j := 1 to 3 do

write(' ',A[i,j],' ');

writeln;

end;

writeln;

writeln('Matrik B : ');

for i := 1 to 3 do

begin

for j := 1 to 3 do

write(' ',B[i,j],' ');

writeln;

end;

writeln;

writeln('Matrik C : ');

for i := 1 to 3 do

begin

for j := 1 to 3 do

begin

write (A[i,j] + B[i,j]:3);

end;

writeln;

end;

readln;

end.

**JAWABAN TUGAS 3**

1. **Program Menghitung Luas Segitiga**

Program Luas\_Segitiga;

Uses crt;

Var

Luas, a, t : real;

Procedure tulis\_segitiga;

Begin

Clrscr;

WriteLn(‘ Menghitung Luas Segitiga ‘);

WriteLn(‘===================================================’);

Writeln(‘Rumus Luas Segitiga Adalah = a \* t/2’);

Writeln;

Write(‘Masukkan Nilai Alas = ‘);readln(a);

Write(‘Masukkan Nilai Tinggi = ‘);readln(t);

Writeln(‘Maka Hasil Luas Segitiga Dari = ‘,a:1:0,’ \*

‘,t:1:0,’/2 ‘,’Adalah’);

End;

Procedure luas\_segitiga;

Begin

Luas:= a \* t/2;

Writeln;

Writeln(‘Hasil Luas Segitiga = ‘,Luas:1:1);

Readln;

End;

Begin

Tulis\_segitiga;

Luas\_segitiga;

End.

1. **Program Menghitung Luas Lingkaran**

program luas\_lingkaran;

uses crt;

var

phi, r, luas: real;

procedure tulis\_lingkaran;

begin

clrscr;

writeln(' Menghitung Luas Lingkaran ');

writeln('===================================================');

phi := 3.14;

writeln('Rumus Luas Lingkaran Adalah = 3.14\*r\*r');

writeln;

write('Masukkan Nilai Jari-Jari = '); readln(r);

writeln('Maka Hasil Luas Lingkaran Dari = ' ,3.14:1:2, '\*'

,r:1:0, '\*' ,r:1:0,' Adalah');

writeln;

end;

procedure luas\_lingkaran;

begin

luas := (3.14\*r\*r) ;

writeln(‘Hasil Luas lingkaran = ‘, luas:1:2);

readln;

end;

begin

tulis\_lingkaran;

luas\_lingkaran;

end.

**JAWABAN TUGAS 4**

1. Program Procedure

Program segitiga;

Uses crt;

Procedure HitungLuas (alas,t : real);

Var

Luas : real;

Begin

Luas := alas \* t/2;

Writeln (‘Hasil Luas Segitiga = ‘,Luas:1:1);

End;

Procedure HitKeliling (a,b,c : Integer);

Var

Kel : Integer;

Begin

Kel := a + b + c;

Writeln (‘Hasil Keliling Segitiga = ‘,Kel);

End;

Var alas,t : Real;

A,b,c : Integer;

Begin

Clrscr;

WriteLn(‘ Menghitung Luas Dan Keliling Segitiga ‘);

WriteLn(‘===================================================’);

Writeln(‘Rumus Luas Segitiga Adalah = a \* t/2’);

Writeln;

Write (‘Masukkan Nilai Alas = ‘);readln(alas);

Write (‘Masukkan Nilai Tinggi = ‘);readln(t);

Writeln;

Writeln(‘Rumus Keliling Segitiga Adalah = s + s + s’);

Writeln;

Write (‘Masukkan Nilai Sisi a = ‘);readln(a);

Write (‘Masukkan Nilai Sisi b = ‘);readln(b);

Write (‘Masukkan Nilai Sisi c = ‘);readln(c);

Writeln;

Writeln(‘Maka Hasil Luas Segitiga Dari = ‘,alas:1:0,’ \* ‘,t:1:0,’/2 ‘,’Adalah’);

Writeln;

HitungLuas (alas,t);

Writeln;

Writeln(‘Maka Hasil Keliling Segitiga Dari = ‘,a, ‘ + ‘ ,b, ‘ + ‘ ,c, ‘ Adalah’);

Writeln;

HitKeliling (a,b,c);

Readln;

End.

1. **Program Function**

Program NilaiMax;

Uses crt;

Function Max ( a,b,c,d,e: integer ): integer;

Begin

If ((a > b) and (a > c) and (a > d) and (a > e)) then

Begin

Max := a;

Writeln(‘Maka Bilangan Max Adalah = ‘,a);

End

Else if ((b > a) and (b > c) and (b > d) and (b > e)) then

Begin

Max := b;

Writeln(‘Maka Bilangan Max Adalah = ‘,b);

End

Else if ((c > a) and (c > b) and (c > d) and (c > e)) then

Begin

Max := c;

Writeln(‘Maka Bilangan Max Adalah = ‘,c);

End

Else if ((d > a) and (d > b) and (d > c) and (d > e)) then

Begin

Max := d;

Writeln(‘Maka Bilangan Max Adalah = ‘,d);

End

Else if ((e > a) and (e > b) and (e > c) and (e > d)) then

Begin

Max := e;

Writeln(‘Maka Bilangan Max Adalah = ‘,e);

End;

End;

Var a,b,c,d,e: integer;

Begin

Clrscr;

Writeln(‘ Menentukan Nilai Bilangan Maksimum ‘);

Writeln(‘===================================================’);

Writeln;

Write(‘Masukkan Bilangan 1 = ‘);readln(a);

Write(‘Masukkan Bilangan 2 = ‘);readln(b);

Write(‘Masukkan Bilangan 3 = ‘);readln(c);

Write(‘Masukkan Bilangan 4 = ‘);readln(d);

Write(‘Masukkan Bilangan 5 = ‘);readln(e);

Writeln;

Max (a,b,c,d,e);

Readln;

End.