Bima Putra Wicaksono
1G_08_2141720255
Pemilihan

```java
import java.util.Scanner;
public class pemilihanJobl{
    public static void main(String[]args){
        Scanner input = new Scanner(System.in);
        int nilTugas, nilUts, nilUas;
        double nilAkhir;
        String nilHuruf;
        System.out.println("Program menghitung Nilai Akhir");
        System.out.println("========================");
        System.out.print("Masukkan Nilai Tugas : ");
        nilTugas=input.nextInt();
        System.out.print("Masukkan Nilai UTS : ");
        nilUts=input.nextInt();
        System.out.print("Masukkan Nilai UAS : ");
        nilUas=input.nextInt();
        System.out.println("========================");
        System.out.println("========================");
        nilAkhir=((0.2*nilTugas)+(0.35*nilUts)+(0.45*nilUas));
        System.out.println("nilai akhir :"+nilAkhir);

        if(nilAkhir>80&&nilAkhir<=100){
            nilHuruf = "A";
            System.out.println("Nilai Huruf :"+ nilHuruf);
        }else if(nilAkhir>73&&nilAkhir<=80){
            nilHuruf = "B";
            System.out.println("Nilai Huruf :"+ nilHuruf);
        }else if(nilAkhir>65&&nilAkhir<=73){
            nilHuruf = "B+";
            System.out.println("Nilai Huruf :"+ nilHuruf);
        }else if(nilAkhir>60&&nilAkhir<=65){
            nilHuruf = "C+";
            System.out.println("Nilai Huruf :"+ nilHuruf);
        }else if(nilAkhir>50&&nilAkhir<=60){
            nilHuruf = "C";
            System.out.println("Nilai Huruf :"+ nilHuruf);
        }else if(nilAkhir>39&&nilAkhir<=50){
            nilHuruf = "D";
            System.out.println("Nilai Huruf :"+ nilHuruf);
        }else if(nilAkhir<=39){
            nilHuruf = "E";
            System.out.println("Nilai Huruf :"+ nilHuruf);
        }
        System.out.println("========================");
        if(nilAkhir>50&&nilAkhir<=100){
            System.out.println("SELAMAT LULUS");
        }else if(nilAkhir<=50){
            System.out.println("TIDAK LULUS");
        }
    }
}
```

```
D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>javac pemilihanJob1.java

D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>java pemilihanJob1
Program menghitung Nilai Akhir
========================
Masukkan Nilai Tugas : 85
Masukkan Nilai UTS : 60
Masukkan Nilai UAS : 82
========================
========================
nilai akhir :74.9
Nilai Huruf :B
========================
SELAMAT LULUS
```

Perulangan

```java
import java.util.Scanner;
public class perulanganJob1{
    public static void main(String[]args){
        Scanner input = new Scanner(System.in);
        System.out.print("Masukkan Nim :");
        int nim =input.nextInt();
        System.out.println("==========================");
        int duaDigitTerakhir = nim-201234500;

        if (duaDigitTerakhir<10){
            duaDigitTerakhir+=10;
         }
        int n= duaDigitTerakhir;
        System.out.println("n : "+n);

        for (int i=1;i<=n;i++){
            if(i==1||i%7==1){
                System.out.print("Senin ");
            }else if(i%7==2){
                System.out.print("Selasa ");
            }else if(i%7==3){
                System.out.print("Rabu ");
            }else if(i%7==4){
                System.out.print("Kamis ");
            }else if(i%7==5){
                System.out.print("Jumat ");
            }else if(i%7==6){
                System.out.print("Sabtu ");
            }else if(i%7==7){
                System.out.print("Minggu ");
            }
        }
    }
}
```

```
D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>javac perulanganJob1.java

D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>java perulanganJob1
Masukkan Nim :201234501
==========================
n : 11
Senin Selasa Rabu Kamis Jumat Sabtu Senin Selasa Rabu Kamis
```

Array

```java
import java.util.Scanner;
public class arrayJob1{
    public static void main(String[]args){
        Scanner input = new Scanner(System.in);
        String[]namaToko = {"RoyalGarden 1","RoyalGarden 2","RoyalGarden 3","RoyalGarden 4"};
        String[]bunga = {"Aglonema","Keladi","Alocasia","Mawar"};
        int hargaAglonema=75000,hargaKeladi=50000,hargaAlocasia=60000,hargaMawar=10000;
        int [][]stockBunga = {
            {10,5,15,7},
            {6,11,9,12},
            {2,10,10,5},
            {5,7,12,9}
        };

        System.out.println("Stock bunga diseluruh cabang : ");
        System.out.println("==============================");
        int stokBuAglonema=0, stokBuKeladi=0, stokBuAlocasia=0, stokBuMawar=0;
        for(int i=0;i<stockBunga.length;i++){
            stokBuAglonema+=stockBunga[i][0];
        }for(int i=0;i<stockBunga.length;i++){
            stokBuKeladi+=stockBunga[i][1];
        }for(int i=0;i<stockBunga.length;i++){
            stokBuAlocasia+=stockBunga[i][2];
        }for(int i=0;i<stockBunga.length;i++){
            stokBuMawar+=stockBunga[i][3];
        }

        int harTotAglonema=stokBuAglonema*hargaAglonema;
        int harTotKeladi=stokBuKeladi*hargaKeladi;
        int harTotAlocasia=stokBuAlocasia*hargaAglonema;
        int harTotMawar=stokBuMawar*hargaMawar;
        int harSel= harTotAglonema+harTotKeladi+harTotAlocasia+harTotMawar;

        int stockBungaCabang =0;
            for (int i = 0; i < stockBunga.length; i++){
                for (int j = 0; j < stockBunga.length; j++){
                    stockBungaCabang = stockBungaCabang + stockBunga[i][j];
                }
            }
        System.out.println("stock Aglonema & harga total : "+stokBuAglonema+" = "+harTotAglonema);
        System.out.println("stock Keladi & harga total : "+stokBuKeladi+" = "+harTotKeladi);
        System.out.println("stock Alocasia & harga total : "+stokBuAlocasia+" = "+harTotAlocasia);
        System.out.println("stock Mawar & harga total : "+stokBuMawar+" = "+harTotMawar);
        System.out.println("stock Mawar & harga total : "+stokBuMawar+" = "+harTotMawar);
        System.out.println("Stock Total & harga Seluruhnya : "+stockBungaCabang+" = "+harSel);

        System.out.println("Pendapatan setelah kesediaan barang berkurang : ");
        System.out.println("==============================");
        int [][]stockBungaSetKur = {
            {9,3,15,2},
            {6,11,9,12},
            {2,10,10,5},
            {5,7,12,9}
        };
        int bungaAgloMati= hargaAglonema*1;
        int bungaKelaMati=hargaKeladi*2;
        int bungaAloMati=hargaAlocasia*0;
        int bungaMawMati=hargaMawar*5;
        int totalMati=bungaAgloMati+bungaKelaMati+bungaAloMati+bungaMawMati;

        System.out.println("mati pada cabang RoyalGarden 1. Dengan rincian Aglonema -1, Keladi -2, Alocasia -0, Mawar -5.");
        System.out.println("Bunga Aglonema Royalgarden1 yang mati & harga total : "+bungaAgloMati);
        System.out.println("Bunga keladi Royalgarden1 yang mati & harga total : "+bungaKelaMati);
        System.out.println("Bunga Alocasia Royalgarden1 yang mati & harga total : "+bungaAloMati);
        System.out.println("Bunga Mawar Royalgarden1 yang mati & harga total : "+bungaMawMati);
        System.out.println("toal Bunga Royalgarden1 yang mati & harga total : "+totalMati);
        int untung=harSel-totalMati;


        System.out.println("Total keuntungan : "+ untung);
    }
}
```

```
D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>java arrayJob1
Stock bunga diseluruh cabang :
==============================
stock Aglonema & harga total : 23 = 1725000
stock Keladi & harga total : 33 = 1650000
stock Alocasia & harga total : 46 = 3450000
stock Mawar & harga total : 33 = 330000
stock Mawar & harga total : 33 = 330000
Stock Total & harga Seluruhnya : 135 = 7155000
Pendapatan setelah kesediaan barang berkurang :
==============================
mati pada cabang RoyalGarden 1. Dengan rincian Aglonema -1, Keladi -2, Alocasia -0, Mawar -5.
Bunga Aglonema Royalgarden1 yang mati & harga total : 75000
Bunga keladi Royalgarden1 yang mati & harga total : 100000
Bunga Alocasia Royalgarden1 yang mati & harga total : 0
Bunga Mawar Royalgarden1 yang mati & harga total : 50000
toal Bunga Royalgarden1 yang mati & harga total : 225000
Total keuntungan : 6930000
```

Fungsi

```java
import java.util.Scanner;
public class fungsiJob1{
    public static void main(String[]args){
        Scanner input = new Scanner(System.in);
        int [][]stockBunga = {
            {10,5,15,7},
            {6,11,9,12},
            {2,10,10,5},
            {5,7,12,9}
        };
         int aglonema = 0, keladi = 0, alocasia = 0, mawar = 0 ;
        int pendapatan ;
        for (int i = 0; i < 4; i++) {
            for (int j = 0; j < 4; j++) {
                if (j == 0) {
                    aglonema += stockBunga[i][j] ;
                } else if (j == 1) {
                    keladi += stockBunga[i][j] ;
                } else if (j == 2) {
                    alocasia += stockBunga[i][j] ;
                } else {
                    mawar += stockBunga[i][j] ;
                }
            }
        }
        pendapatan = (10-1)*75000 + (5-2)*50000 + 1560000 + (7-5)*10000 ;
        System.out.println("A. Jumlah Stock Bunga Berdasarkan Jenis Bunga : ");
        System.out.println("Jumlah Stock Bunga Aglonema adalah " + aglonema) ;
        System.out.println("Jumlah Stock Bunga Keladi adalah " + keladi) ;
        System.out.println("Jumlah Stock Bunga Alocasia adalah " + alocasia) ;
        System.out.println("Jumlah Stock Bunga Mawar adalah " + mawar + "\n") ;
        System.out.println("B. Pendapatan RoyalGarden1 jika Semua Bunga Terjual Habis : ");
        System.out.println("Pendapatan RoyalGarden1 adalah Rp " + pendapatan) ;
    }
}
```

```
D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>javac fungsiJob1.java

D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>java fungsiJob1
A. Jumlah Stock Bunga Berdasarkan Jenis Bunga :
Jumlah Stock Bunga Aglonema adalah 23
Jumlah Stock Bunga Keladi adalah 33
Jumlah Stock Bunga Alocasia adalah 46
Jumlah Stock Bunga Mawar adalah 33

B. Pendapatan RoyalGarden1 jika Semua Bunga Terjual Habis :
Pendapatan RoyalGarden1 adalah Rp 2405000
```

Tugas 1

```java
import java.util.Scanner;
public class tugasNo1{


        static void laundry(){
            Scanner input = new Scanner(System.in);
            System.out.print("Ingin Laundry Berapa Kg : ");
            int kg = input.nextInt();
            int tarif= 4500, totalTarif;
            if(kg>10){
                System.out.println("diatas 10kg Diskon 5% ");
                totalTarif = tarif*kg*95/100;
            }else{
                totalTarif = tarif*kg;
            }
            System.out.print("Total biaya : "+ totalTarif+"\n");
            }
        public static void main(String[]args){
        Scanner input = new Scanner(System.in);
        laundry();
        laundry();
        laundry();
        laundry();
        }


}
```

```
D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>javac tugasNo1.java

D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>java tugasNo1
Ingin Laundry Berapa Kg : 4
Total biaya : 18000
Ingin Laundry Berapa Kg : 15
diatas 10kg Diskon 5%
Total biaya : 64125
Ingin Laundry Berapa Kg : 6
Total biaya : 27000
Ingin Laundry Berapa Kg : 11
diatas 10kg Diskon 5%
Total biaya : 47025
```

Tugas 2

```java
import java.util.Scanner;
public class tugasNo2{

    static void rumusKecepatan(){
    Scanner input = new Scanner(System.in);
    System.out.println("Rumus Kecepatan");
    System.out.print("Masukkan s : ");
    double s = input.nextDouble();
    System.out.print("Masukkan t : ");
    double t = input.nextDouble();
    double v = s/t;
    System.out.print("v : "+v);
    }

    static void rumusJarak(){
    Scanner input = new Scanner(System.in);
    System.out.println("Rumus Jarak");
    System.out.print("Masukkan v : ");
    double v = input.nextDouble();
    System.out.print("Masukkan t : ");
    double t = input.nextDouble();
    double s = v*t;
    System.out.print("s : "+s);
    }

    static void rumusWaktu(){
    Scanner input = new Scanner(System.in);
    System.out.println("Rumus Waktu");
    System.out.print("Masukkan s : ");
    double s = input.nextDouble();
    System.out.print("Masukkan v : ");
    double v = input.nextDouble();
    double t = s/v;
    System.out.print("t : "+t);
    }
    public static void main(String[]args){
    Scanner input = new Scanner(System.in);
    System.out.println("Silahkan Memillih menu");
    System.out.println("1. rumusKecepatan");
    System.out.println("2. rumusJarak");
    System.out.println("3. rumusWaktu");

    System.out.print("Masukkan angka pilihan : ");
    byte no = input.nextByte();
    if (no==1){
        rumusKecepatan();
    }else if(no==2){
        rumusJarak();
    }else if(no==3){
        rumusWaktu();
    }
    }
}
```

```
D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>javac tugasNo2.java

D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>java tugasNo2
Silahkan Memillih menu
1. rumusKecepatan
2. rumusJarak
3. rumusWaktu
Masukkan angka pilihan : 1
Rumus Kecepatan
Masukkan s : 24
Masukkan t : 3
v : 8.0
D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>java tugasNo2
Silahkan Memillih menu
1. rumusKecepatan
2. rumusJarak
3. rumusWaktu
Masukkan angka pilihan : 2
Rumus Jarak
Masukkan v : 34
Masukkan t : 3
s : 102.0
D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>java tugasNo2
Silahkan Memillih menu
1. rumusKecepatan
2. rumusJarak
3. rumusWaktu
Masukkan angka pilihan : 3
Rumus Waktu
Masukkan s : 76
Masukkan v : 3
t : 25.333333333333332
D:\BIMA\Tugas TI sms 2\ALOGARITMA DATA\tugas\jobsheet2\Praktikum-Alogaritma\Pertemuan 2>
```