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Praktikum Jobsheet 1

1. **Pemilihan**

   Program :

C: > Users > user > OneDrive > Documents > Algoritma > 1 > Pemilihan.java

```java
import java.util.Scanner;
public class Pemilihan{
    public static void main(String[]args){
        Scanner sc = new Scanner(System.in);

        int tugas, uts, uas;
        double nAkhir;
        String nHuruf="";
        System.out.println("PROGRAM MENGHITUNG NILAI AKHIR");
        System.out.println("==============================");
        System.out.print("Masukan Nilai Tugas\t: ");
        tugas=sc.nextInt();
        System.out.print("Masukan Nilai UTS\t: ");
        uts=sc.nextInt();
        System.out.print("Masukan Nilai UAS\t: ");
        uas=sc.nextInt();
        System.out.println("==============================");
        System.out.println("==============================");

        nAkhir = (tugas*0.20)+(uts*0.35)+(uas*0.45);
        if(nAkhir>80&& nAkhir<=100){
            nHuruf="A";
        }else if (nAkhir>73 && nAkhir<=80){
            nHuruf="B+";
        }else if(nAkhir>65 && nAkhir<=73){
            nHuruf="B";
        }else if(nAkhir>60 && nAkhir<=65){
            nHuruf="C+";
        }else if(nAkhir>50 && nAkhir<=60){
            nHuruf="C";
        }else if(nAkhir>39 && nAkhir<=50){
            nHuruf="D";
        }else if(nAkhir<39){
            nHuruf="E";
        }
        System.out.println("Nilai akhir\t= "+(int)nAkhir);
        System.out.println("Nilai Huruf\t= "+ nHuruf);
        System.out.println("==============================");

        if(nAkhir>50){
            System.out.println("SELAMAT ANDA LULUS");
        }else{
            System.out.println("ANDA TIDAK LULUS");
        }
    }
}
```

Output :

```
C:\Users\user\OneDrive\Documents\Algoritma\1>java Pemilihan
PROGRAM MENGHITUNG NILAI AKHIR
==============================
Masukan Nilai Tugas     : 80
Masukan Nilai UTS       : 76
Masukan Nilai UAS       : 88
==============================
==============================
Nilai akhir     = 82
Nilai Huruf     = A
==============================
SELAMAT ANDA LULUS
```

2. Perulangan

Program :

C: > Users > user > OneDrive > Documents > Algoritma > 1 > Perulangan.java

```java
import java.util.Scanner;
public class Perulangan{
    public static void main(String[]args){
        Scanner sc = new Scanner(System.in);
        int nim, n;
        String hari[]={"Senin","Selasa","Rabu","Kamis","Jumat","Sabtu","Minggu"};

        System.out.print("Masukan NIM : ");
        nim = sc.nextInt();
        n = (nim - 2141720000);
        if(n<10){
            n+=10;
        }
        for (int i = 0; i < n; i++) {
            System.out.print(hari[i % 7]+" ");
        }
        System.out.println("");

    }
}
```

Output :

```
C:\Users\user\OneDrive\Documents\Algoritma\1>java Perulangan
Masukan NIM : 2141720001
Senin Selasa Rabu Kamis Jumat Sabtu Minggu Senin Selasa Rabu Kamis
```

3. Array

Program :

C: > Users > user > OneDrive > Documents > Algoritma > 1 > Array.java

```java
import java.util.Scanner;
public class Array{
    public static void main(String[]args){
        Scanner sc = new Scanner(System.in);
        String[] cabang= {"RoyalGarden1","RoyalGarden2","RoyalGarden3","RoyalGarden4"};
        int [][] stock={
            {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;

        for (int i=0; i<cabang.length;i++){
            aglonema += stock[i][0];
        }
        for (int i=0; i<cabang.length;i++){
            keladi += stock[i][1];
        }
        for (int i=0; i<cabang.length;i++){
            alocasia += stock[i][2];
        }
        for (int i=0; i<cabang.length;i++){
            mawar += stock[i][3];
        }

        System.out.println("A. Jumlah Stock berdasarkan jenis bunganya di seluruh Cabang : ");
        System.out.println("Stock Algonema\t: " +aglonema);
        System.out.println("Stock keladi\t: " +keladi);
        System.out.println("Stock Alocasia\t: " +alocasia);
        System.out.println("Stock Mawar\t: " +mawar);

        int pendapatan = ((stock[0][0]-1)*75000)+((stock[0][1] - 2)*50000)+(stock[0][2]*60000) ((stock[0][3]-5)*10000);
        System.out.println("B. Pendapatan Royal Garden 1 = "+pendapatan);


    }
}
```

Output :

```
C:\Users\user\OneDrive\Documents\Algoritma\1>java Array
A. Jumlah Stock berdasarkan jenis bunganya di seluruh Cabang :
Stock Algonema  : 23
Stock keladi    : 33
Stock Alocasia  : 46
Stock Mawar     : 33
B. Pendapatan Royal Garden 1 = 1745000
```

4. Fungsi

C: > Users > user > OneDrive > Documents > Algoritma > 1 > Fungsi.java

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

    static int[][] stock = {
                {10, 5, 15, 7},
                {6, 11, 9, 12},
                {2, 10, 10, 5},
                {5, 7, 12, 9}
        };
    static String[] cabang= {"RoyalGarden1","RoyalGarden2","RoyalGarden3","RoyalGarden4"};
    public static void main(String[]args){
        Scanner sc = new Scanner(System.in);
        //1.
        menampilkanStockBunga();
        //2.
        menampilkanSeluruhStock();
    }
    static void menampilkanStockBunga() {
        System.out.println("1. Menampilkan stock sesuai tabel");
        System.out.println("Cabang\t\t|  Algonema\t|Keladi\t\t|Alocasia\t|Mawar");
        System.out.println(cabang[0] + "\t|   " + stock[0][0] + "\t\t|  " + stock[0][1] + "\t\t|  " + stock[0][2] + "\t\t|  " +stock[0][3]);
        System.out.println(cabang[1] + "\t|   " + stock[1][0] + "\t\t|  " + stock[1][1] + "\t\t|  " + stock[1][2] + "\t\t|  " +stock[1][3]);
        System.out.println(cabang[2] + "\t|   " + stock[2][0] + "\t\t|  " + stock[2][1] + "\t\t|  " + stock[2][2] + "\t\t|  " +stock[2][3]);
        System.out.println(cabang[3] + "\t|   " + stock[3][0] + "\t\t|  " + stock[3][1] + "\t\t|  " + stock[3][2] + "\t\t|  " +stock[3][3]);

    }

    static void menampilkanSeluruhStock() {
        int aglonema=0, keladi=0, alocasia=0, mawar=0;

        for (int i=0; i<cabang.length;i++){
            aglonema += stock[i][0];
        }
        for (int i=0; i<cabang.length;i++){
            keladi += stock[i][1];
        }
        for (int i=0; i<cabang.length;i++){
            alocasia += stock[i][2];
        }
        for (int i=0; i<cabang.length;i++){
            mawar += stock[i][3];
        }

        System.out.println("\n2. Berdasarkan jenis bunganya di seluruh Cabang");
        System.out.println("Stock Algonema\t: " +aglonema);
        System.out.println("Stock keladi\t: " +keladi);
        System.out.println("Stock Alocasia\t: " +alocasia);
        System.out.println("Stock Mawar\t: " +mawar);

    }
}
```

Output :

```
C:\Users\user\OneDrive\Documents\Algoritma\1>java Fungsi
1. Menampilkan stock sesuai tabel
Cabang           |  Algonema     |Keladi         |Alocasia       |Mawar
RoyalGarden1     |   10          |  5            |  15           |  7
RoyalGarden2     |   6           |  11           |  9            |  12
RoyalGarden3     |   2           |  10           |  10           |  5
RoyalGarden4     |   5           |  7            |  12           |  9

2. Berdasarkan jenis bunganya di seluruh Cabang
Stock Algonema  : 23
Stock keladi    : 33
Stock Alocasia  : 46
Stock Mawar     : 33
```

TUGAS

1. Tugas 1

Program :

C: > Users > user > OneDrive > Documents > Algoritma > 1 > Tugas1.java

```
1  import java.util.Scanner;
2  public class Tugas1 {
3      public static void main(String[] args) {
4          Scanner sc = new Scanner(System.in);
5
6          int pelanggan, pendapatan=0, berat;
7          double bayar=0, diskon;
8          System.out.print("Masukan Jumlah Pelanggan\t: ");
9          pelanggan=sc.nextInt();
10         String nama;
11
12         for(int i=0; i<pelanggan; i++){
13             System.out.print("Masukan nama Pelanggan\t: ");
14             nama = sc.next();
15             System.out.print("Masukan berat baju\t: ");
16             berat= sc.nextInt();
17             if (berat>10){
18
19                 bayar = berat*4500;
20                 diskon = bayar*0.05;
21                 bayar = bayar-diskon;
22                 System.out.println("Selamat anda mendapat diskon 5%");
23             } else {
24                 bayar = berat*4500;
25             }
26             System.out.println("Jumlah Bayar "+nama+"\t= " +bayar);
27             System.out.println("==================================");
28             pendapatan+=bayar;
29         }
30         System.out.println("Hasil Pendapatan Dari Keseluruhan Laundry adalah Rp: "+ pendapatan);
31     }
32 }
```

Output :

```
C:\Users\user\OneDrive\Documents\Algoritma\1>java Tugas1
Masukan Jumlah Pelanggan        : 4
Masukan nama Pelanggan  : Ani
Masukan berat baju      : 4
Jumlah Bayar Ani        = 18000.0
==================================
Masukan nama Pelanggan  : Budi
Masukan berat baju      : 15
Selamat anda mendapat diskon 5%
Jumlah Bayar Budi       = 64125.0
==================================
Masukan nama Pelanggan  : Bina
Masukan berat baju      : 6
Jumlah Bayar Bina       = 27000.0
==================================
Masukan nama Pelanggan  : Cita
Masukan berat baju      : 11
Selamat anda mendapat diskon 5%
Jumlah Bayar Cita       = 47025.0
==================================
Hasil Pendapatan Dari Keseluruhan Laundry adalah Rp: 156150
```

2. Tugas 2

Program :

C: > Users > user > OneDrive > Documents > Algoritma > 1 > Tugas2.java

```java
import java.util.Scanner;
public class Tugas2{
    static double v, s, t;
    static Scanner sc = new Scanner(System.in);
    public static void main(String[] args) {
        int menu;
        System.out.println("------------Daftar Menu------------");
        System.out.println("1. Rumus Perhitungan Kecepatan");
        System.out.println("2. Rumus Perhitungan Jarak");
        System.out.println("3. Rumus Perhitungan Waktu");

        System.out.print("Pilihan Menu : ");
        menu = sc.nextInt();
        if(menu==1){
            kecepatan();
        }else if(menu==2){
            jarak();
        }else if(menu==3){
            waktu();
        }else{
            System.out.println("INPUT ANDA SALAH");
        }
    }
    //Menghitung hasil perhitungan Kecepatan
    static void kecepatan() {
        System.out.println("-------------------------------------");
        System.out.println("Manghitung Kecepatan");
        System.out.print("Masukkan jarak (km)\t: ");
        s = sc.nextDouble();
        System.out.print("Masukkan waktu (jam)\t: ");
        t = sc.nextDouble();
        v = s/t;
        System.out.println("Kecepatan\t\t= " + v + " Km/Jam" );
        System.out.println("-------------------------------------");
    }
    //Menghitung hasil perhitungan Jarak
    static void jarak() {
        System.out.println("-------------------------------------");
        System.out.println("Menghitung Jarak");
        System.out.print("Masukkan Kecepatan (Km/jam)\t: ");
        v = sc.nextDouble();
        System.out.print("Masukkan waktu (jam)\t\t: ");
        t = sc.nextDouble();
        s = v*t;
        System.out.println("Jarak\t\t\t\t= " + s +" Km");
        System.out.println("-------------------------------------");

    }
    //Menghitung hasil perhitungan Waktu
    static void waktu() {
        System.out.println("-------------------------------------");
        System.out.println("Menghitung Waktu");
        System.out.print("Masukkan jarak (Km)\t\t: ");
        s = sc.nextDouble();
        System.out.print("Masukkan kecepatan (Km/jam)\t: ");
        v = sc.nextDouble();
        t = s/v;
        System.out.println("Waktu yang ditempuh\t\t= " + t + " jam");
        System.out.println("-------------------------------------");
    }
}
```

Outpur :

```
C:\Users\user\OneDrive\Documents\Algoritma\1>java Tugas2
------------Daftar Menu------------
1. Rumus Perhitungan Kecepatan
2. Rumus Perhitungan Jarak
3. Rumus Perhitungan Waktu
Pilihan Menu : 1
-------------------------------------
Manghitung Kecepatan
Masukkan jarak (km)     : 81
Masukkan waktu (jam)    : 3
Kecepatan               = 27.0 Km/Jam
-------------------------------------
```