

Jobsheet 1

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Pemilihan

Code :

```
package Jobsheet1AnSD;

import java.util.Scanner;

public class PrktkmPmlhn {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int nilaiTugas;
        int nilaiKuis;
        int nilaiUTS;
        int nilaiUAS;
        float a;
        float b;
        float c;
        float d;
        float nilaiAkhir;
        String nilaiHuruf = "";
        System.out.println("Program Menghitung Nilai Akhir");
        System.out.println("=====");
        System.out.print("Masukkan Nilai Tugas : ");
        nilaiTugas = sc.nextInt();
        System.out.print("Masukkan Nilai Kuis : ");
        nilaiKuis = sc.nextInt();
        System.out.print("Masukkan Nilai UTS : ");
        nilaiUTS = sc.nextInt();
        System.out.print("Masukkan Nilai UAS : ");
        nilaiUAS = sc.nextInt();
        System.out.println("=====");
        System.out.println("=====");
        a = nilaiTugas * 20/100;
```

```

b = nilaiKuis * 20/100;
c = nilaiUTS * 30/100;
d = nilaiUAS * 40/100;
nilaiAkhir = a + b + c + d;
if (nilaiAkhir <= 100 && nilaiAkhir > 80) {
    nilaiHuruf = "A";
}else if (nilaiAkhir <= 80 && nilaiAkhir > 73) {
    nilaiHuruf = "B+";
}else if (nilaiAkhir <= 73 && nilaiAkhir > 65) {
    nilaiHuruf = "B";
}else if (nilaiAkhir <= 65 && nilaiAkhir > 60) {
    nilaiHuruf = "C+";
}else if (nilaiAkhir <= 60 && nilaiAkhir > 50) {
    nilaiHuruf = "C";
}else if (nilaiAkhir <= 50 && nilaiAkhir > 39) {
    nilaiHuruf = "D";
}else if (nilaiAkhir <= 39) {
    nilaiHuruf = "E";
}
if (nilaiTugas > 100 || nilaiKuis > 100 || nilaiUTS > 100 || nilaiUAS >
100) {
    System.out.println("Nilai Tidak Valid");
}

}else{
    System.out.println("Nilai Akhir : " + nilaiAkhir);
    System.out.println("Nilai Huruf : " + nilaiHuruf);

}
System.out.println("=====");
}

}

```

Output :

```
Program Menghitung Nilai Akhir
=====
Masukkan Nilai Tugas : 90
Masukkan Nilai Kuis : 86
Masukkan Nilai UTS : 85
Masukkan Nilai UAS : 93
=====
=====
Nilai Akhir : 97.0
Nilai Huruf : A
=====
PS C:\Users\tempe\Documents\java\MatKul\AlgRtm&StrktrDsr> █
```

Perulangan

Code :

```
package Jobsheet1AnSD;

import java.util.Scanner;

public class PrktkmPngln {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        long nimGw ;
        System.out.print("Masukkan NIM Anda : ");
        nimGw = sc.nextLong();
        long nimakhirgw = nimGw % 100;

        for (int i = 1;i <= nimakhirgw;i++){
            if (i == 10 || i == 15) {

                }else if (i % 3 == 0) {
                    System.out.print(" # ");
                }else if (i % 2 == 1) {
                    System.out.print(" * ");
                } else{
                    System.out.print(i);
                }
                System.out.print(" ");

            }

        }
    }
}
```

```
    }
}
```

Output:

```
Masukkan NIM Anda : 254107020216
* 2 # 4 * # * 8 # * # * 14 16
PS C:\Users\tempe\Documents\java\MatKul\Algrtm&StrktrDsr> █
```

Array

Code :

```
package Jobsheet1AnSD;

import java.util.Scanner;

public class PrktkmArry {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        float [] nilai = new float[8];
        String [] nilaiHuruf1 = new String[8];
        double [] nilaiBobot = new double[8];
        String [] matKul = new String[8];
        int [] bobotSKS = new int[8];
        double bobotSKSFinal = 0;
        double nilaiFinal = 0;
        String nilaiHuruf = "";
        double total=0;
        int totalsKS = 0;
        System.out.println("=====");
        System.out.println("Program Menghitung IP Semester");
        System.out.println("=====");
        for (int a = 0;a <= 7;a++){
            System.out.print("Masukkan nama Mata Kuliah ke-"+(a+1)+" : ");
            matKul [a] =sc.nextLine();
        }
        for (int c = 0;c <= 7;c++){
            System.out.print("Masukkan nilai Mata Kuliah "+matKul [c]+ " : ");
            nilai [c] =sc.nextFloat();
            nilaiFinal = nilai [c];
        }
    }
}
```

```

for (int d = 0;d <= 7;d++){
    System.out.println("Masukkan Bobot SKS : ");
    bobotSKS [d] = sc.nextInt();
    bobotSKSFinal = bobotSKS [d];
}
for (int i = 0 ; i <= 7;i++){
    if (nilai [i] <= 100 && nilai [i] > 80) {
        nilaiHuruf = "A";
        nilaiHuruf1 [i] = nilaiHuruf;
    }else if (nilai [i] <= 80 && nilai [i] > 73) {
        nilaiHuruf = "B+";
        nilaiHuruf1 [i]= nilaiHuruf;
    }else if (nilai [i] <= 73 && nilai [i] > 65) {
        nilaiHuruf = "B";
        nilaiHuruf1 [i] = nilaiHuruf;
    }else if (nilai [i] <= 65 && nilai [i] > 60) {
        nilaiHuruf = "C+";
        nilaiHuruf1 [i] = nilaiHuruf;
    }else if (nilai [i] <= 60 && nilai [i] > 50) {
        nilaiHuruf = "C";
        nilaiHuruf1 [i] = nilaiHuruf;
    }else if (nilai [i] <= 50 && nilai [i] > 39) {
        nilaiHuruf = "D";
        nilaiHuruf1 [i] = nilaiHuruf;
    }else if (nilai [i] <= 39) {
        nilaiHuruf = "E";
        nilaiHuruf1 [i] = nilaiHuruf;
    }
}
for (int j = 0;j <= 7;j++){
    if (nilaiHuruf1 [j] == "A") {
        nilaiBobot [j] = 4.00;
    }else if (nilaiHuruf1 [j] == "B+") {
        nilaiBobot [j] = 3.50;
    }else if (nilaiHuruf1 [j] == "B") {
        nilaiBobot [j] = 3.00;
    }else if (nilaiHuruf1 [j] == "C+" ) {
        nilaiBobot [j] = 2.50;
    }else if (nilaiHuruf1 [j] == "C" ) {
        nilaiBobot [j] = 2.00;
    }
}
System.out.println("=====");
System.out.println("Hasil Konversi Nilai");

```

```

        System.out.println("=====");
        System.out.println("Matkul \t \t Nilai Angka \t\t Nilai Huruf \t Bobot
Nilai");
        for (int b = 0;b <= 7;b++){
            System.out.println(matKul[b] +"\t\t"+ nilai [b] +"\t\t"+
nilaiHuruf1 [b] +" \t\t"+ nilaiBobot[b]);
        }
        for (int g = 0;g <=7;g++){
            total += (nilaiBobot[g] * bobotSKS [g]);
            totalsKS += bobotSKS[g];
        }
        double ip = total /totalsKS;

System.out.println("=====");
        System.out.println("IP : "+ ip);

    }
}

```

Output :

```

=====
Hasil Konversi Nilai
=====
Matkul           Nilai Angka      Nilai Huruf   Bobot Nilai
pancasila          98.0             A              4.0
ctps               86.0             A              4.0
matdas              84.0             A              4.0
kti                 92.0             A              4.0
b ing               85.0             A              4.0
daspro              76.0             B+             3.5
prkt                90.0             A              4.0
k3                  74.0             B+             3.5
=====
IP : 3.5

```

Fungsi

Code :

```

package Jobsheet1AnSD;

public class PrktkmFngsi {

```

```

public static int hitungPendapatan(int[] stok, int[] harga) {
    int total = 0;
    for (int i = 0; i < stok.length; i++) {
        total += stok[i] * harga[i];
    }
    return total;
}

public static String statusCabang(int pendapatan) {
    if (pendapatan > 1500000) {
        return "Sangat Baik";
    } else {
        return "Perlu Evaluasi";
    }
}

public static void main(String[] args) {

    int[][] stokBunga = {
        {10, 5, 15, 7},
        {6, 11, 9, 12},
        {2, 10, 10, 5},
        {5, 7, 12, 9}
    };

    int[] hargaBunga = {75000, 50000, 60000, 10000};

    for (int i = 0; i < stokBunga.length; i++) {
        int pendapatan = hitungPendapatan(stokBunga[i], hargaBunga);
        String status = statusCabang(pendapatan);

        System.out.println("RoyalGarden " + (i + 1));
        System.out.println("Pendapatan : Rp." + pendapatan);
        System.out.println("Status      : " + status);
        System.out.println();
    }
}
}

```

Output:

```
RoyalGarden 1
Pendapatan : Rp.1970000
Status      : Sangat Baik

RoyalGarden 2
Pendapatan : Rp.1660000
Status      : Sangat Baik

RoyalGarden 3
Pendapatan : Rp.1300000
Status      : Perlu Evaluasi

RoyalGarden 4
Pendapatan : Rp.1535000
Status      : Sangat Baik
```

Tugas 1

Code :

```
package Jobsheet1AnSD;

import java.util.Scanner;

public class Tgs1 {
    public static void main(String[] args) {
        Scanner sc =new Scanner(System.in);

        char namaPlat [] ={'A','B','D','E','F','G','H','L','N','T'};
        char namaKota [][] ={{
            {'B','A','N','T','E','N',' ',' ',' ',' ',' ',' ',' ',' '},
            {'J','A','K','A','R','T','A',' ',' ',' ',' ',' ',' ',' '},
            {'B','A','N','D','U','N','G',' ',' ',' ',' ',' ',' ',' '},
            {'C','I','R','E','B','O','N',' ',' ',' ',' ',' ',' ',' '},
            {'B','O','G','O','R',' ',' ',' ',' ',' ',' ',' ',' '},
            {'P','E','K','A','L','O','N','G','A','N',' ',' ',' '},
            {'S','E','M','A','R','A','N','G',' ',' ',' ',' ',' '},
            {'S','U','R','A','B','A','Y','A',' ',' ',' ',' ',' '},
            {'M','A','L','A','N','G',' ',' ',' ',' ',' ',' ',' '},
            {'T','E','G','A','L',' ',' ',' ',' ',' ',' ',' ',' '}
        }};
        System.out.print("Masukkan kode plat : ");
        char inputKode =sc.next().charAt(0);
```

```
for (int i = 0; i < namaPlat.length; i++) {
    if (inputKode == namaPlat[i]) {
        for (int j = 0;j < 12 ;j++){
            System.out.print(namaKota[i][j]);
        }
        break;
    }
}
}
```

Output :

```
Masukkan kode plat : B
JAKARTA
PS C:\Users\tempe\Documents\
```

Tugas 2

Code :

```
package Jobsheet1AnSD;

import java.util.Scanner;

public class Tgs2 {

    static Scanner sc = new Scanner(System.in);

    public static void main(String[] args) {

        System.out.print("Masukkan jumlah jadwal kuliah: ");
        int n = sc.nextInt();
        sc.nextLine();

        String[][] jadwal = new String[n][4];

        inputJadwal(jadwal);
        tampilSemuaJadwal(jadwal);

        System.out.print("\nCari jadwal berdasarkan hari: ");
        String hari = sc.nextLine();
```

```

tampilJadwalByHari(jadwal, hari);

System.out.print("\nCari jadwal berdasarkan mata kuliah: ");
String matkul = sc.nextLine();
tampilJadwalByMatkul(jadwal, matkul);
}

static void inputJadwal(String[][] jadwal) {
    for (int i = 0; i < jadwal.length; i++) {
        System.out.println("\nJadwal ke-" + (i + 1));
        System.out.print("Nama Mata Kuliah : ");
        jadwal[i][0] = sc.nextLine();

        System.out.print("Ruang : ");
        jadwal[i][1] = sc.nextLine();

        System.out.print("Hari : ");
        jadwal[i][2] = sc.nextLine();

        System.out.print("Jam : ");
        jadwal[i][3] = sc.nextLine();
    }
}

static void tampilSemuaJadwal(String[][] jadwal) {
    System.out.println("\n==== DAFTAR JADWAL KULIAH ===");
    System.out.println("Mata Kuliah | Ruang | Hari | Jam");
    System.out.println("-----");

    for (int i = 0; i < jadwal.length; i++) {
        for (int j = 0; j < 4; j++) {
            System.out.print(jadwal[i][j] + " | ");
        }
        System.out.println();
    }
}

static void tampilJadwalByHari(String[][] jadwal, String hari) {
    boolean ketemu = false;
}

```

```
for (int i = 0; i < jadwal.length; i++) {
    if (jadwal[i][2].equalsIgnoreCase(hari)) {
        System.out.println(jadwal[i][0] + " | " +
                           jadwal[i][1] + " | " +
                           jadwal[i][2] + " | " +
                           jadwal[i][3]);
        ketemu = true;
    }
}

if (!ketemu) {
    System.out.println("Jadwal tidak ditemukan.");
}
}

static void tampilJadwalByMatkul(String[][] jadwal, String matkul) {
    boolean ketemu = false;

    for (int i = 0; i < jadwal.length; i++) {
        if (jadwal[i][0].equalsIgnoreCase(matkul)) {
            System.out.println(jadwal[i][0] + " | " +
                               jadwal[i][1] + " | " +
                               jadwal[i][2] + " | " +
                               jadwal[i][3]);
            ketemu = true;
        }
    }

    if (!ketemu) {
        System.out.println("Mata kuliah tidak ditemukan.");
    }
}
}
```

Output:

```
Jadwal ke-1
Nama Mata Kuliah : daspro
Ruang           : lpy
Hari            : rabu
Jam             : 8

Jadwal ke-2
Nama Mata Kuliah : agama
Ruang           : rt
Hari            : jumat
Jam             : 10
```

1.

```
== DAFTAR JADWAL KULIAH ==
Mata Kuliah | Ruang | Hari | Jam
-----
daspro | lpy | rabu | 8 |
agama | rt | jumat | 10 |
```

2.

```
Cari jadwal berdasarkan hari: rabu
daspro | lpy | rabu | 8
```

3.

```
Cari jadwal berdasarkan mata kuliah: agama
agama | rt | jumat | 10
```

4.