

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 PrktkmPnglgn {
    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 PrktkmArray {  
    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\t"+ nilai [b] +"\t\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.