

Jobsheet 1

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Kelas/Absen: 1G_TI/20

NIM: 254107020110

1. Pemilihan

```
package Jobsheet1;

import java.util.Scanner;

public class PemilihanNilai20 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        double Tugas, Kuis, UTS, UAS, P_Tugas, P_Kuis, P_UTS, P_UAS, Total;
        int Counter = 0;

        System.out.println("Program Menghitung Nilai Akhir");
        System.out.println("=====");
        System.out.print("Masukkan Nilai Tugas: ");
        Tugas = sc.nextDouble();
        System.out.print("Masukkan Nilai Kuis: ");
        Kuis = sc.nextDouble();
        System.out.print("Masukkan Nilai UTS: ");
        UTS = sc.nextDouble();
        System.out.print("Masukkan Nilai UAS: ");
        UAS = sc.nextDouble();
        System.out.println("=====");

        P_Tugas = Tugas * 0.2;
        P_Kuis = Kuis * 0.2;
        P_UTS = UTS * 0.3;
        P_UAS = UAS * 0.3;
```

Total = P_Tugas + P_Kuis + P_UTS + P_UAS;

```
if (Tugas > 100 || Kuis > 100 || UTS > 100 || UAS > 100) {  
    Counter++;  
}
```

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

```
if (Counter == 1) {  
    System.out.println("Nilai Tidak Valid");  
} else {  
    System.out.println("Nilai Akhir: " + Total);  
    if (80 < Total && Total <= 100) {  
        System.out.println("Nilai Huruf: A");  
    } else if (73 < Total) {  
        System.out.println("Nilai Huruf: B+");  
    } else if (65 < Total) {  
        System.out.println("Nilai Huruf: B");  
    } else if (60 < Total) {  
        System.out.println("Nilai Huruf: C+");  
    } else if (50 < Total) {  
        System.out.println("Nilai Huruf: C");  
    } else if (39 < Total) {  
        System.out.println("Nilai Huruf: D");  
    } else if (Total <= 39) {  
        System.out.println("Nilai Huruf: E");  
    }  
}
```

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

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

```
if (!(Counter == 1)) {  
    if (51 < Total && Total <= 100) {
```

```

        System.out.println("SELAMAT ANDA LULUS");

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

        System.out.println("SELAMAT ANDA TIDAK LULUS");

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

    }

}

}

}

```

HASIL PROGRAM

Program Menghitung Nilai Akhir	Program Menghitung Nilai Akhir
Masukkan Nilai Tugas: 90	Masukkan Nilai Tugas: 90
Masukkan Nilai Kuis: 60	Masukkan Nilai Kuis: 80
Masukkan Nilai UTS: 140	Masukkan Nilai UTS: 50
Masukkan Nilai UAS: 90	Masukkan Nilai UAS: 65
=====	=====
Nilai Tidak Valid	Nilai Akhir: 68.5
=====	Nilai Huruf: B
=====	=====
=====	SELAMAT ANDA LULUS
=====	=====

2. Perulangan

```

package Jobsheet1;

import java.util.Scanner;

public class PerulanganNIM20 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        double Nim, AngkaNim;

        System.out.print("Masukkan NIM Anda: ");

        Nim = sc.nextDouble();

        AngkaNim = Nim % 100;

        if (AngkaNim < 10) {

```

```

        AngkaNim += 10;
    }

    for (int i = 1; i <= AngkaNim; i++) {

        if(i == 10 || i == 15){
            continue;
        }else if (i % 3 == 0) {
            System.out.print("#");
        }else if (i % 2 == 1) {
            System.out.print("*");
        }else{
            System.out.print(i);
        }
        System.out.print(" ");
    }
}

```

HASIL PROGRAM



```

Masukkan NIM Anda: 254107020110
* 2 # 4 * # * 8 #

```

3. Array

```

package Jobsheet1;

import java.util.Scanner;

public class ArrayNilai20 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        //[8][1] Untuk MK dan [8][2] Untuk Nilai Huruf

        String[][] ArrayHuruf = new String[8][2];
    }
}

```

//[8][1] Untuk Nilai Angka, [8][2] Untuk Bobot SKS, [8][3] Untuk Nilai Setara

```
double[][] ArrayAngka = new double[8][3];
```

```
double[] TotalHitung = new double[8];
```

```
double TotalIP = 0, TotalSKS = 0;
```

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

```
for (int i = 0; i < TotalHitung.length; i++) {
```

```
    System.out.print("Masukkan Mata Pelajaran ke-" + (i+1) + ": ");
```

```
    ArrayHuruf[i][0] = sc.nextLine();
```

```
    System.out.print("Input Bobot Nilai Mata Pelajaran: ");
```

```
    ArrayAngka[i][1] = sc.nextDouble();
```

```
    sc.nextLine();
```

```
}
```

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

```
for (int i = 0; i < TotalHitung.length; i++) {
```

```
    System.out.print("Masukkan Nilai " + ArrayHuruf[i][0] + ": ");
```

```
    while (true) {
```

```
        ArrayAngka[i][0] = sc.nextDouble();
```

```
        if (0 < ArrayAngka[i][0] && ArrayAngka[i][0] <= 100 ) {
```

```
            break;
```

```
        } else {
```

```
            System.out.println("Nilai Tidak Sesuai, Mohon Coba Kembali");
```

```
            continue;
```

```
        }
```

```
    }
```

```
}
```

```
for (int i = 0; i < TotalHitung.length; i++) {
```

```
    if (80 < ArrayAngka[i][0] && ArrayAngka[i][0] <= 100) {
```

```
        ArrayHuruf[i][1] = "A";
```

```
        ArrayAngka[i][2] = 4;
```

```

    }else if (73 < ArrayAngka[i][0]) {
        ArrayHuruf[i][1] = "B+";
        ArrayAngka[i][2] = 3.5;
    }else if (65 < ArrayAngka[i][0]) {
        ArrayHuruf[i][1] = "B";
        ArrayAngka[i][2] = 3;
    }else if (60 < ArrayAngka[i][0]) {
        ArrayHuruf[i][1] = "C+";
        ArrayAngka[i][2] = 2.5;
    }else if (50 < ArrayAngka[i][0]) {
        ArrayHuruf[i][1] = "C";
        ArrayAngka[i][2] = 2;
    }else if (39 < ArrayAngka[i][0]) {
        ArrayHuruf[i][1] = "D";
        ArrayAngka[i][2] = 1;
    }else if (ArrayAngka[i][0] <= 39) {
        ArrayHuruf[i][1] = "E";
        ArrayAngka[i][2] = 0;
    }
}

```

```

for (int i = 0; i < TotalHitung.length; i++) {
    TotalHitung[i] = ArrayAngka[i][1] * ArrayAngka[i][2];
    TotalIP += TotalHitung[i];
    TotalSKS += ArrayAngka[i][1];
}

```

```

System.out.println("");

```

```

System.out.println("Nilai hasil konversi");

```

```

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

```

```

System.out.println("MATA KULIAH | NILAI ANGKA | NILAI HURUF | BOBOT NILAI");

```

```

        for(int i = 0; i < TotalHitung.length; i++){

            System.out.printf("| %-40s | %-10.2f | %-11s | %-11.2f |\n",

                ArrayHuruf[i][0], ArrayAngka[i][0], ArrayHuruf[i][1], ArrayAngka[i][2]);

        }

        System.out.println("IP: " + (TotalIP / TotalSKS));

    }

}

```

HASIL PROGRAM

```

=====
Masukkan Mata Pelajaran ke-1: Pancasila
Input Bobot Nilai Mata Pelajaran: 2
Masukkan Mata Pelajaran ke-2: KTI
Input Bobot Nilai Mata Pelajaran: 2
Masukkan Mata Pelajaran ke-3: MatDas
Input Bobot Nilai Mata Pelajaran: 4
Masukkan Mata Pelajaran ke-4: B.Ing
Input Bobot Nilai Mata Pelajaran: 3
Masukkan Mata Pelajaran ke-5: Daspro
Input Bobot Nilai Mata Pelajaran: 6
Masukkan Mata Pelajaran ke-6: Praktikum Daspro
Input Bobot Nilai Mata Pelajaran: 6
Masukkan Mata Pelajaran ke-7: CTPS
Input Bobot Nilai Mata Pelajaran: 2
Masukkan Mata Pelajaran ke-8: K3
Input Bobot Nilai Mata Pelajaran: 2
=====
Masukkan Nilai Pancasila: 75
Masukkan Nilai KTI: 85
Masukkan Nilai MatDas: 85
Masukkan Nilai B.Ing: 85
Masukkan Nilai Daspro: 62
Masukkan Nilai Praktikum Daspro: 62
Masukkan Nilai CTPS: 70
Masukkan Nilai K3: 85
Nilai hasil konversi
=====
MATA KULIAH | NILAI ANGKA | NILAI HURUF | BOBOT NILAI
| Pancasila | 75.00 | B+ | 3.50 |
| KTI | 85.00 | A | 4.00 |
| MatDas | 85.00 | A | 4.00 |
| B.Ing | 85.00 | A | 4.00 |
| Daspro | 62.00 | C+ | 2.50 |
| Praktikum Daspro | 62.00 | C+ | 2.50 |
| CTPS | 70.00 | B | 3.00 |
| K3 | 85.00 | A | 4.00 |
IP: 3.2222222222222223

```

4. Fungsi

```

package Jobsheet1;

public class FungsiCabang20 {

    private static double[][] Stock = {{10, 5, 15, 7},

                                         {6, 11, 9, 12},

                                         {2, 10, 10, 5},

                                         {5, 7, 12, 9}};

    private static double[] Harga = {75000, 50000, 60000, 10000};

    public static void main(String[] args) {

        MenghitungHarga();
    }
}

```

```
    Status();  
}
```

```
public static void MenghitungHarga(){
```

```
    System.out.println("=== PENDAPATAN SETIAL CABANG ===");
```

```
    int[] Total = new int[4];
```

```
    for (int i = 0; i < Stock.length; i++) {
```

```
        for (int j = 0; j < Stock[i].length; j++) {
```

```
            Total[i] += Stock[i][j] * Harga[j];
```

```
        }
```

```
    }
```

```
    for (int i = 0; i < Total.length; i++) {
```

```
        System.out.println("Royal Garden " + (i+1) + ": Rp. " + Total[i]);
```

```
    }
```

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

```
    System.out.println("");
```

```
}
```

```
private static void Status(){
```

```
    System.out.println("=== STATUS EVALUASI ===");
```

```
    int[] Total = new int[4];
```

```
    for (int i = 0; i < Stock.length; i++) {
```

```
        for (int j = 0; j < Stock[i].length; j++) {
```

```
            Total[i] += Stock[i][j] * Harga[j];
```

```
        }
```

```
    }
```

```
    for (int i = 0; i < Total.length; i++) {
```



```

        if (Total[i] > 1500000 && Total[i] <= 1500000) {

            System.out.println("Royal Garden " + (i+1) + ": Rp. " + Total[i] + " | Status: Sangat Baik");

        }else{

            System.out.println("Royal Garden " + (i+1) + ": Rp. " + Total[i] + " | Status: Perlu
Evaluasi");

        }

    }

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

}

}

```

HASIL PROGRAM

```

=== PENDAPATAN SETIAL CABANG ===
Royal Garden 1: Rp. 1970000
Royal Garden 2: Rp. 1660000
Royal Garden 3: Rp. 1300000
Royal Garden 4: Rp. 1535000
=====

=== STATUS EVALUASI ===
Royal Garden 1: Rp. 1970000 | Status: Perlu Evaluasi
Royal Garden 2: Rp. 1660000 | Status: Perlu Evaluasi
Royal Garden 3: Rp. 1300000 | Status: Perlu Evaluasi
Royal Garden 4: Rp. 1535000 | Status: Perlu Evaluasi
=====

```

- Tugas 1

```

package Jobsheet1;

import java.util.Scanner;

public class Tugas1 {

    private static char[] Kode = {'A','B','D','E','F','G','H','L','N','T'};

    private static char[][] PlatNomor = {{'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'}};

```

```

public static void main(String[] args) {
    SearchingPlat();
}

public static void SearchingPlat(){
    Scanner sc = new Scanner(System.in);

    System.out.print("Input Kode Kota: ");
    char Mencari = sc.next().charAt(0);

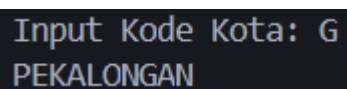
    int counter = 0;

    for (int i = 0; i < Kode.length; i++) {
        if (Kode[i] == Mencari) {
            counter = i;
        }
    }

    for (int i = 0; i < PlatNomor[counter].length; i++) {
        System.out.print(PlatNomor[counter][i]);
    }
}
}

```

HASIL PROGRAM



```

Input Kode Kota: G
PEKALONGAN

```

- TUGAS 2

```

package Jobsheet1;

import java.util.Scanner;

public class Tugas2 {

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

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

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

        inputJadwal(jadwal, n, sc);

        int pilihan;
        do {
            System.out.println("\n=== MENU JADWAL KULIAH ===");
            System.out.println("1. Tampilkan seluruh jadwal (tabel)");
            System.out.println("2. Tampilkan jadwal berdasarkan hari tertentu");
            System.out.println("3. Tampilkan jadwal berdasarkan nama mata kuliah");
            System.out.println("4. Keluar");
            System.out.print("Pilih menu (1-4): ");
            pilihan = sc.nextInt();
            sc.nextLine();

            switch (pilihan) {
                case 1:
                    System.out.println("\n=== Seluruh Jadwal Kuliah ===");
                    tampilkanJadwal(jadwal, n);
                    break;
                case 2:

```

```

        System.out.print("Masukkan hari yang dicari: ");
        String hari = sc.nextLine();
        tampilkanJadwalHari(jadwal, n, hari);
        break;
    case 3:
        System.out.print("Masukkan nama mata kuliah (bisa sebagian): ");
        String mk = sc.nextLine();
        tampilkanJadwalMataKuliah(jadwal, n, mk);
        break;
    case 4:
        System.out.println("Program selesai.");
        break;
    default:
        System.out.println("Pilihan tidak valid.");
    }
} while (pilihan != 4);

sc.close();
}

```

```

static void inputJadwal(String[][] jadwal, int n, Scanner sc) {
    for (int i = 0; i < n; i++) {
        System.out.printf("==== Jadwal %d ====\n", 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 Kuliah: ");
        jadwal[i][2] = sc.nextLine();
        System.out.print("Jam Kuliah: ");
        jadwal[i][3] = sc.nextLine();
    }
}

```

```
    }  
}
```

```
static void tampilkanJadwal(String[][] jadwal, int n) {  
    System.out.printf("%-20s %-20s %-10s %-15s%n",  
        "Mata Kuliah", "Ruang", "Hari", "Jam");  
    for (int i = 0; i < n; i++) {  
        System.out.printf("%-20s %-20s %-10s %-15s%n",  
            jadwal[i][0], jadwal[i][1], jadwal[i][2], jadwal[i][3]);  
    }  
}
```

```
static void tampilkanJadwalHari(String[][] jadwal, int n, String hari) {  
    System.out.printf("==== Jadwal Kuliah Hari %s ====%n", hari.trim());  
    System.out.printf("%-20s %-20s %-10s %-15s%n",  
        "Mata Kuliah", "Ruang", "Hari", "Jam");
```

```
    boolean ditemukan = false;  
    for (int i = 0; i < n; i++) {  
        if (jadwal[i][2].equalsIgnoreCase(hari.trim())) {  
            System.out.printf("%-20s %-20s %-10s %-15s%n",  
                jadwal[i][0], jadwal[i][1], jadwal[i][2], jadwal[i][3]);  
            ditemukan = true;  
        }  
    }
```

```
    if (!ditemukan) {  
        System.out.println("Tidak ada jadwal pada hari tersebut.");  
    }  
}
```

```

static void tampilkanJadwalMataKuliah(String[][] jadwal, int n, String mk) {
    System.out.printf("== Jadwal Mata Kuliah yang mengandung: %s ==%n", mk.trim());
    System.out.printf("%-20s %-20s %-10s %-15s%n",
        "Mata Kuliah", "Ruang", "Hari", "Jam");

    boolean ditemukan = false;
    for (int i = 0; i < n; i++) {
        if (jadwal[i][0].toLowerCase().contains(mk.toLowerCase().trim())) {
            System.out.printf("%-20s %-20s %-10s %-15s%n",
                jadwal[i][0], jadwal[i][1], jadwal[i][2], jadwal[i][3]);
            ditemukan = true;
        }
    }

    if (!ditemukan) {
        System.out.println("Tidak ada jadwal dengan nama tersebut.");
    }
}

```

HASIL PROGRAM

Masukkan jumlah jadwal kuliah: 5

=== Jadwal 1 ===

Nama Mata Kuliah: Daspro

Ruang: Ruang teori 2

Hari Kuliah: Senin

Jam Kuliah: 10.30

=== Jadwal 2 ===

Nama Mata Kuliah: Praktikum Daspro

Ruang: Ruang Praktikum 5

Hari Kuliah: Selasa

Jam Kuliah: 7.30

=== Jadwal 3 ===

Nama Mata Kuliah: KTI

Ruang: Ruang 8

Hari Kuliah: Jumat

Jam Kuliah: 13.00

=== Jadwal 4 ===

Nama Mata Kuliah: CTPS

Ruang: Ruang 5

Hari Kuliah: Rabu

Jam Kuliah: 14.00

=== Jadwal 5 ===

Nama Mata Kuliah: K3

Ruang: Ruang 7

Hari Kuliah: Kamis

Jam Kuliah: 10.30

=== MENU JADWAL KULIAH ===

1. Tampilkan seluruh jadwal (tabel)
2. Tampilkan jadwal berdasarkan hari tertentu
3. Tampilkan jadwal berdasarkan nama mata kuliah
4. Keluar

Pilih menu (1-4): 1

=== Seluruh Jadwal Kuliah ===

Mata Kuliah	Ruang	Hari	Jam
Daspro	Ruang teori 2	Senin	10.30
Praktikum Daspro	Ruang Praktikum 5	Selasa	7.30
KTI	Ruang 8	Jumat	13.00
CTPS	Ruang 5	Rabu	14.00
K3	Ruang 7	Kamis	10.30

=== MENU JADWAL KULIAH ===

1. Tampilkan seluruh jadwal (tabel)
2. Tampilkan jadwal berdasarkan hari tertentu
3. Tampilkan jadwal berdasarkan nama mata kuliah
4. Keluar

Pilih menu (1-4): 2

Masukkan hari yang dicari: kamis

=== Jadwal Kuliah Hari kamis ===

Mata Kuliah	Ruang	Hari	Jam
K3	Ruang 7	Kamis	10.30

=== MENU JADWAL KULIAH ===

1. Tampilkan seluruh jadwal (tabel)
2. Tampilkan jadwal berdasarkan hari tertentu
3. Tampilkan jadwal berdasarkan nama mata kuliah
4. Keluar

Pilih menu (1-4): 3

Masukkan nama mata kuliah (bisa sebagian): Ctps

=== Jadwal Mata Kuliah yang mengandung: Ctps ===

Mata Kuliah	Ruang	Hari	Jam
CTPS	Ruang 5	Rabu	14.00