

Laporan Jobsheet 1

Nama : Muhammad Unggul Satria Adjie

Kelas : TI 1G

NIM : 254107020040

1. Praktikum Pemilihan

Code :

```
package Jobsheet1;
import java.util.Scanner;
public class Pemilihan {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String nilaiHuruf1 = "";
        String Status1 = "";

        System.out.println("==> Masukkan Nilai Mahasiswa ==>");
        System.out.print(" Masukkan nilai Tugas : ");
        int nilaiTgs1 = sc.nextInt();
        System.out.print(" Masukkan nilai Kuis : ");
        int nilaiKuis = sc.nextInt();
        System.out.print(" Masukkan nilai Uts : ");
        int nilaiUts1 = sc.nextInt();
        System.out.print(" Masukkan nilai UAS : ");
        int nilaiUas1 = sc.nextInt();

        if ((0 < nilaiTgs1 && nilaiTgs1 > 100) || (0 < nilaiKuis && nilaiKuis > 100)
            || (0 < nilaiUts1 && nilaiUts1 > 100) || (0 < nilaiUas1 && nilaiUas1 > 100)) {
            System.out.println("=====");
            System.out.println("=====");
            System.out.println("Nilai Tidak Valid");
            System.out.println("=====");
            System.out.println("=====");
        } else {
            double nilaiAkhir1 = (nilaiTgs1 * 0.2) + (nilaiKuis * 0.2) + (nilaiUts1 * 0.3) + (nilaiUas1 *
0.3);
            if (80 < nilaiAkhir1 && nilaiAkhir1 <= 100) {
                nilaiHuruf1 = "A";
            } else if (73 < nilaiAkhir1 && nilaiAkhir1 <= 80) {
                nilaiHuruf1 = "B+";
            } else if (65 < nilaiAkhir1 && nilaiAkhir1 <= 73) {
                nilaiHuruf1 = "B";
            } else if (60 < nilaiAkhir1 && nilaiAkhir1 <= 65) {
```

```
nilaiHuruf1 = "C+";
} else if (50 < nilaiAkhir1 && nilaiAkhir1 <= 60) {
    nilaiHuruf1 = "C";
} else if (39 < nilaiAkhir1 && nilaiAkhir1 <= 50) {
    nilaiHuruf1 = "D";
} else if (0 < nilaiAkhir1 && nilaiAkhir1 <= 39) {
    nilaiHuruf1 = "E";
}

if (nilaiHuruf1.equals("D") || nilaiHuruf1.equals("E")) {
    Status1 = "Maaf Anda Tidak Lulus";
} else {
    Status1 = "Selamat Anda Lulus";
}
System.out.println("=====");
System.out.println("=====");
System.out.println("Nilai Akhir : " + nilaiAkhir1);
System.out.println("Nilai Huruf : " + nilaiHuruf1);
System.out.println("=====");
System.out.println("=====");
System.out.println(Status1);

sc.close();
}
}
```

}

Hasil :

```
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '--enable-p
User\workspaceStorage\071ff3b2a8f05f476515f93cbd567d56
==== Masukkan Nilai Mahasiswa ====
Masukkan nilai Tugas : 85
Masukkan nilai Kuis : 90
Masukkan nilai Uts : 120
Masukkan nilai UAS : 70
=====
=====
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '--enable-p
User\workspaceStorage\071ff3b2a8f05f476515f93cbd567d56
==== Masukkan Nilai Mahasiswa ====
Masukkan nilai Tugas : 90
Masukkan nilai Kuis : 40
Masukkan nilai Uts : 75
Masukkan nilai UAS : 85
=====
=====
Nilai Akhir : 74.0
Nilai Huruf : B+
=====
=====
Selamat Anda Lulus
```

2. Perulangan

Code

```
package Jobsheet1;
import java.util.*;
public class Perulangan {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.print("Masukkan NIM");
        double NIM = sc.nextDouble();
        double n = (NIM % 100);

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

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

            if (i == 10 || i == 15) {
                continue;
            }if (i % 3 == 0) {
                System.out.print("# ");
            }else if (i % 2 == 0) {
                System.out.print(i + " ");
            }else {
                System.out.print("* ");
            }
        }
        System.out.println("\n=====");
        sc.close();
    }
}
```

Hasil

```
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionTraces' 'User\workspaceStorage\071ff3b2a8f05f476515f93cbd567d56\redhat.java\jdt_ws\ASD_77513939\bin'
Masukkan NIM 254107020040
n : 40.0
=====
* 2 # 4 * # * 8 # * # * 14 16 * # * 20 # 22 * # * 26 # 28 * # * 32 # 34 * # * 38 # 40
=====
```

3.Array

Code

```
package Jobsheet1;
import java.util.Scanner;

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

        System.out.println("=====");
        System.out.println("Program Menghitung IP Semester");
        System.out.println("=====");
        System.out.print("Masukkan jumlah mata kuliah: ");
        int jumlahMK = sc.nextInt();
        sc.nextLine();

        String[] namaMK = new String[jumlahMK];
        int[] bobotSKS = new int[jumlahMK];
        double[] nilaiAngka = new double[jumlahMK];
        String[] nilaiHuruf = new String[jumlahMK];
        double[] nilaiSetara = new double[jumlahMK];

        for (int i = 0; i < jumlahMK; i++) {
            System.out.println("\nData Mata Kuliah ke-" + (i + 1));
            System.out.print("Masukkan nama mata kuliah: ");
            namaMK[i] = sc.nextLine();
            System.out.print("Masukkan bobot SKS : ");
            bobotSKS[i] = sc.nextInt();
            System.out.print("Masukkan nilai Angka : ");
            nilaiAngka[i] = sc.nextDouble();
            sc.nextLine();

            if (nilaiAngka[i] > 80 && nilaiAngka[i] <= 100) {
                nilaiHuruf[i] = "A"; nilaiSetara[i] = 4.0;
            } else if (nilaiAngka[i] > 73) {
                nilaiHuruf[i] = "B+"; nilaiSetara[i] = 3.5;
            } else if (nilaiAngka[i] > 65) {
                nilaiHuruf[i] = "B"; nilaiSetara[i] = 3.0;
            } else if (nilaiAngka[i] > 60) {
                nilaiHuruf[i] = "C+"; nilaiSetara[i] = 2.5;
            } else if (nilaiAngka[i] > 50) {
                nilaiHuruf[i] = "C"; nilaiSetara[i] = 2.0;
            } else if (nilaiAngka[i] > 39) {
                nilaiHuruf[i] = "D"; nilaiSetara[i] = 1.0;
            }
        }
    }
}
```

```

    } else {
        nilaiHuruf[i] = "E"; nilaiSetara[i] = 0.0;
    }
}

double totalBobotXSetara = 0;
int totalSKS = 0;

System.out.println("\nHasil Konversi Nilai");

System.out.println("=====");
System.out.println("MK\tNilai Angka\tNilai Huruf\tBobot Nilai");
System.out.println("-----");

for (int i = 0; i < jumlahMK; i++) {
    System.out.println(namaMK[i] + "\t" + nilaiAngka[i] + "\t" + nilaiHuruf[i] + "\t" +
    nilaiSetara[i]);

    totalBobotXSetara += (nilaiSetara[i] * bobotSKS[i]);
    totalSKS += bobotSKS[i];
}

double ipSemester = totalBobotXSetara / totalSKS;
System.out.println("=====");
// System.out.println("Total SKS : " + totalSKS);
System.out.println("IP : " + ipSemester);
sc.close();
}
}

```

Hasil

```
PS D:\ASD> cd 'd:\ASD'; & 'C:\jdk-25.0.1\bin\java.exe' '--enable-preview' 'Roaming\Code\User\workspaceStorage\071ff3b2a8f05f476515f93cbd567d56\re
=====
Program Menghitung IP Semester
=====
Masukkan jumlah mata kuliah: 2

Data Mata Kuliah ke-1
Masukkan nama mata kuliah: MTK
Masukkan bobot SKS      : 2
Masukkan nilai Angka    : 90

Data Mata Kuliah ke-2
Masukkan nama mata kuliah: Pancasila
Masukkan bobot SKS      : 3
Masukkan nilai Angka    : 75

Hasil Konversi Nilai
=====
MK           Nilai Angka   Nilai Huruf   Bobot Nilai
-----
MTK          90.0          A            4.0
Pancasila    75.0          B+           3.5
=====
IP : 3.7
```

4. Fungsi

Code

```
package Jobsheet1;
public class Fungsi {
    static int H_Aglonema = 75000;
    static int H_Keladi = 50000;
    static int H_Alocasia = 60000;
    static int H_Mawar = 10000;
    public static void main(String[] args) {
        int[][] stockBunga = {
            {10, 5, 15, 7},
            {6, 11, 9, 12},
            {2, 10, 10, 5},
            {5, 7, 12, 9}
        };
        System.out.println("Laporan Cabang Royal Garden");
        Pendapatan(stockBunga);
    }

    public static void Pendapatan(int[][] stock){
        for(int i = 0; i < stock.length; i++) {
            int total = (stock[i][0] * H_Aglonema) +
                (stock[i][1] * H_Keladi) +
                (stock[i][2] * H_Alocasia) +
                (stock[i][3] * H_Mawar);

            String status = (total > 1500000) ? "Sangat Baik" : "Perlu Evaluasi";
            System.out.println("RoyalGarden " + (i + 1) + " " + total + "| Status" + status );
        }
    }
}
```

Hasil

```
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '--enable-
User\workspaceStorage\071ff3b2a8f05f476515f93cbd567d5
Laporan Cabang Royal Garden
RoyalGarden 1 1970000| StatusSangat Baik
RoyalGarden 2 1660000| StatusSangat Baik
RoyalGarden 3 1300000| StatusPerlu Evaluasi
RoyalGarden 4 1535000| StatusSangat Baik
```

Tugas 1

Code

```
package Jobsheet1;
import java.util.Scanner;

public class Tugas1 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        char[] Kode = {
            'A', 'B', 'D', 'E', 'F', 'G', 'H', 'L', 'N', 'T'
        };
        char[][] Kota = {
            {'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'},
            {'M', 'A', 'L', 'A', 'N', 'G'},
            {'T', 'E', 'G', 'A', 'L'}
        };
        System.out.print("Masukkan kode plat nomor: ");
        char cari = sc.next().toUpperCase().charAt(0);

        boolean ditemukan = false;

        for (int i = 0; i < Kode.length; i++) {
            if (Kode[i] == cari) {
                System.out.print("Nama Kota: ");
                for (int j = 0; j < Kota[i].length; j++) {
                    if (Kota[i][j] != '\0') {
                        System.out.print(Kota[i][j]);
                    }
                }
                System.out.println();
                ditemukan = true;
                break;
            }
        }
        if (!ditemukan) {
            System.out.println("Kode plat tidak ditemukan!");
        }
    }
}
```

```
        sc.close();
    }
}
```

Hasil

```
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '-jar' 'User\workspaceStorage\071ff3b2a8f05f476515f93d4e0a233\Platno\bca.jar'
Masukkan kode plat nomor: F
Nama Kota: BOGOR
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '-jar' 'User\workspaceStorage\071ff3b2a8f05f476515f93d4e0a233\Platno\bca.jar'
Masukkan kode plat nomor: A
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '-jar' 'User\workspaceStorage\071ff3b2a8f05f476515f93d4e0a233\Platno\bca.jar'
Masukkan kode plat nomor: F
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '-jar' 'User\workspaceStorage\071ff3b2a8f05f476515f93d4e0a233\Platno\bca.jar'
Masukkan kode plat nomor: B
Nama Kota: JAKARTA
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '-jar' 'User\workspaceStorage\071ff3b2a8f05f476515f93d4e0a233\Platno\bca.jar'
Masukkan kode plat nomor: D
Nama Kota: BANDUNG
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '-jar' 'User\workspaceStorage\071ff3b2a8f05f476515f93d4e0a233\Platno\bca.jar'
Masukkan kode plat nomor: E
Nama Kota: CIREBON
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '-jar' 'User\workspaceStorage\071ff3b2a8f05f476515f93d4e0a233\Platno\bca.jar'
Masukkan kode plat nomor: G
Nama Kota: PEKALONGAN
PS D:\ASD> & 'C:\jdk-25.0.1\bin\java.exe' '-jar' 'User\workspaceStorage\071ff3b2a8f05f476515f93d4e0a233\Platno\bca.jar'
Masukkan kode plat nomor: H
Nama Kota: SEMARANG
```

Tugas 2

Code

```
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 (n): ");
        int n = sc.nextInt();
        sc.nextLine();

        String[][] jadwal = new String[n][4];
        inputJadwal(jadwal, sc);

        int pilihan;
        do {
            System.out.println("\n==== MENU MANAJEMEN JADWAL ===");
            System.out.println("1. Tampilkan Seluruh Jadwal");
            System.out.println("2. Cari Jadwal Berdasarkan Hari");
            System.out.println("3. Cari Jadwal Berdasarkan Mata Kuliah");
            System.out.println("4. Keluar");
            System.out.print("Pilih Menu: ");
            pilihan = sc.nextInt();
            sc.nextLine();

            switch (pilihan) {
                case 1:
                    tampilanSemuaJadwal(jadwal);
                    break;
                case 2:
                    System.out.print("Masukkan Hari yang dicari: ");
                    String hariCari = sc.nextLine();
                    tampilanBerdasarkanHari(jadwal, hariCari);
                    break;
                case 3:
                    System.out.print("Masukkan Nama Mata Kuliah yang dicari: ");
                    String mkCari = sc.nextLine();
                    tampilanBerdasarkanMK(jadwal, mkCari);
                    break;
                case 4:
            }
        } while (pilihan != 4);
    }

    private void tampilanSemuaJadwal(String[][] jadwal) {
        for (int i = 0; i < jadwal.length; i++) {
            System.out.println("Jadwal " + (i + 1));
            System.out.println("-----");
            System.out.println("Mata Kuliah: " + jadwal[i][0]);
            System.out.println("Hari: " + jadwal[i][1]);
            System.out.println("Jam: " + jadwal[i][2]);
            System.out.println("Kelas: " + jadwal[i][3]);
            System.out.println();
        }
    }

    private void tampilanBerdasarkanHari(String[][] jadwal, String hari) {
        System.out.println("Jadwal pada Hari " + hari);
        System.out.println("-----");
        for (int i = 0; i < jadwal.length; i++) {
            if (jadwal[i][1].equals(hari)) {
                System.out.println("Jadwal " + (i + 1));
                System.out.println("-----");
                System.out.println("Mata Kuliah: " + jadwal[i][0]);
                System.out.println("Hari: " + jadwal[i][1]);
                System.out.println("Jam: " + jadwal[i][2]);
                System.out.println("Kelas: " + jadwal[i][3]);
                System.out.println();
            }
        }
    }

    private void tampilanBerdasarkanMK(String[][] jadwal, String mk) {
        System.out.println("Jadwal Mata Kuliah " + mk);
        System.out.println("-----");
        for (int i = 0; i < jadwal.length; i++) {
            if (jadwal[i][0].equals(mk)) {
                System.out.println("Jadwal " + (i + 1));
                System.out.println("-----");
                System.out.println("Mata Kuliah: " + jadwal[i][0]);
                System.out.println("Hari: " + jadwal[i][1]);
                System.out.println("Jam: " + jadwal[i][2]);
                System.out.println("Kelas: " + jadwal[i][3]);
                System.out.println();
            }
        }
    }
}
```

```

        System.out.println("Terima kasih!");
        break;
    default:
        System.out.println("Pilihan tidak valid!");
    }
} while (pilihan != 4);

sc.close();
}

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

public static void tampilkanSemuaJadwal(String[][] jadwal) {
    System.out.println("\n-----");
    System.out.println("Nama Mata Kuliah| Ruang| Hari| Jam");
    System.out.println("-----");
    for (int i = 0; i < jadwal.length; i++) {
        System.out.println(jadwal[i][0] + "\t| " + jadwal[i][1] + "\t| " + jadwal[i][2] + "\t| " +
jadwal[i][3]);
    }
}

public static void tampilkanBerdasarkanHari(String[][] jadwal, String hari) {
    System.out.println("\nJadwal pada hari " + hari + ":");
    boolean ditemukan = false;
    for (int i = 0; i < jadwal.length; i++) {
        if (jadwal[i][2].equalsIgnoreCase(hari)) {
            System.out.println("- " + jadwal[i][0] + " (" + jadwal[i][3] + ") di " + jadwal[i][1]);
            ditemukan = true;
        }
    }
    if (!ditemukan)
}

```

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

public static void tampilkanBerdasarkanMK(String[][] jadwal, String mk) {
    System.out.println("\nInformasi Mata Kuliah " + mk + ":");
    boolean ditemukan = false;
    for (int i = 0; i < jadwal.length; i++) {
        if (jadwal[i][0].equalsIgnoreCase(mk)) {
            System.out.println("Ruang: " + jadwal[i][1] + ", Hari: " + jadwal[i][2] + ", Jam: " +
jadwal[i][3]);
            ditemukan = true;
        }
    }
    if (!ditemukan)
        System.out.println("Mata kuliah tidak ditemukan.");
}
}
```

Hasil

```
\jdt_ws\ASD_77513939\bin' 'Jobsheet1.Tugas2'
Masukkan jumlah jadwal kuliah (n): 3

Input Jadwal ke-1
Nama Mata Kuliah : MTK
Ruang           : LKJ1
Hari Kuliah     : Senin
Jam Kuliah      : 08.00

Input Jadwal ke-2
Nama Mata Kuliah : Pemrograman
Ruang           : Lpr
Hari Kuliah     : Senin
Jam Kuliah      : 13.00

Input Jadwal ke-3
Nama Mata Kuliah : Desain Grafis
Ruang           : Rt 2
Hari Kuliah     : Selasa
Jam Kuliah      : 08.00

==== MENU MANAJEMEN JADWAL ====
1. Tampilkan Seluruh Jadwal
==== MENU MANAJEMEN JADWAL ====
1. Tampilkan Seluruh Jadwal
2. Cari Jadwal Berdasarkan Hari
3. Cari Jadwal Berdasarkan Mata Kuliah
4. Keluar
Pilih Menu: 1

-----
| Nama Mata Kuliah | Ruang | Hari | Jam |
-----
MTK      | LKJ1 | Senin | 08.00
Pemrograman | Lpr | Senin | 13.00
Desain Grafis | Rt 2 | Selasa | 08.00

==== MENU MANAJEMEN JADWAL ====
1. Tampilkan Seluruh Jadwal
2. Cari Jadwal Berdasarkan Hari
3. Cari Jadwal Berdasarkan Mata Kuliah
4. Keluar
Pilih Menu: 2
Masukkan Hari yang dicari: senin

Jadwal pada hari senin:
- MTK (08.00) di LKJ1
- Pemrograman (13.00) di Lpr
```