JOBSHEET 1 SAFRIZAL RAHMAN

LINK GITHUB: https://github.com/safrizalrahman46/Jobsheet1_Sem2

2.1

```
import java.util.Scanner;
public class HitungNilaiAkhir22 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Masukkan nilai tugas: ");
        int tugas = scanner.nextInt();
        System.out.print("Masukkan nilai kuis: ");
        int kuis = scanner.nextInt();
        System.out.print("Masukkan nilai UTS: ");
        int uts = scanner.nextInt();
        System.out.print("Masukkan nilai UAS: ");
        int uas = scanner.nextInt();
        Object[] hasil = hitungNilaiAkhir(tugas, kuis,
uts, uas);
```

```
if (hasil[0].equals("nilai tidak valid")) {
        System.out.println("Output: " + hasil[0]);
      } else {
        System.out.println("Program Menghitung Nilai
Akhir: ");
        System.out.println("Nilai Tugas = " +
tugas);
        System.out.println("Nilai Kuis = " + kuis);
        System.out.println("Nilai UTS = " + uts);
        System.out.println("Nilai UAS = " + uas);
        ======");
        =======");
        System.out.println("Nilai akhir: " +
hasil[0]);
        System.out.println("Nilai huruf: " +
hasil[1]);
        =======");
        =======");
        System.out.println("" + hasil[2]);
        =======");
   }
   public static Object[] hitungNilaiAkhir(int tugas,
int kuis, int uts, int uas) {
     Object[] result = new Object[3];
```

```
if (tugas < 0 || tugas > 100 || kuis < 0 || kuis</pre>
> 100 || uts < 0 || uts > 100 || uas < 0 || uas > 100) {
            result[0] = "nilai tidak valid";
            return result;
        double nilaiAkhir = 0.2 * tugas + 0.2 * kuis +
0.3 * uts + 0.4 * uas;
        String nilaiHuruf;
        if (nilaiAkhir >= 80) {
            nilaiHuruf = "A";
        } else if (nilaiAkhir >= 73) {
            nilaiHuruf = "B+";
        } else if (nilaiAkhir >= 65) {
            nilaiHuruf = "B";
        } else if (nilaiAkhir >= 60) {
            nilaiHuruf = "C+";
        } else if (nilaiAkhir >= 50) {
            nilaiHuruf = "C";
        } else if (nilaiAkhir >= 39) {
            nilaiHuruf = "D":
        } else {
            nilaiHuruf = "E";
```

```
String keterangan = nilaiHuruf.equals("D") ||
nilaiHuruf.equals("E") ? "TIDAK LULUS" : "LULUS";

result[0] = nilaiAkhir;
result[1] = nilaiHuruf;
result[2] = keterangan;

return result;
}
```

```
public class HitungNilaiAkhir22 {
               public static void main(String[] args) {
                          System.out.println(x:"===========");
                          System.out.println(x:"=========")
                          System.out.println("Nilai akhir: " + hasil[0]);
                          System out println("Nilai huruf: " + hasil[1]);
                          System.out.println(x:"===========")
                          System.out.println("" + hasil[2]);
                          System.out.println(x:"=========");
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\Safrizal Rahman> & 'C:\Program Files\Microsoft\jdk-11.0.12.7-hotspot\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n,suspend=y,addre:Rahman\Apppata\\local\femp\\rscodesws_6a114\jdt_ws\jdt.ls-java-project\bin' 'HitungNilaiAkhir22' Masukkan nilai tugas: 100
Masukkan nilai kuis: 20
Masukkan nilai UTS: 80
Masukkan nilai UAS: 90
Program Menghitung Nilai Akhir:
Nilai Tugas = 100
Nilai Kuis = 20
Nilai UTS = 80
Nilai UAS = 90
Nilai akhir: 84.0
Nilai huruf: A
PS C:\Users\Safrizal Rahman>
```

```
import java.util.Scanner;
public class NIM22 {
    public static void main(String[] args) {
        Scanner safrizal22 = new Scanner(System.in);
        System.out.print("Masukkan NIM: ");
        String nim = safrizal22.nextLine();
        int n =
Integer.parseInt(nim.substring(nim.length() - 2));
        if (n < 10) {
            n += 10;
        System.out.print("OUTPUT: ");
        System.out.println("n = " + n);
        for (int i = 1; i <= n; i++) {
            if (i != 6 && i != 10) {
                if (i % 2 != 0) {
                    System.out.print("* ");
                } else {
                    System.out.print(i + " ");
```

```
}
}
}
```

2.3

```
/**
  * Array22
  */
import java.util.Scanner;
```

```
import java.util.ArrayList;
import java.util.List;
public class Array22 {
   private static List<List> arrayMatakuliah22 = new
ArrayList<>();
   private static Scanner safrizal22 = new
Scanner(System.in);
   public static void main(String[] args) {
    String[] course = {
      "Pancasila",
      "Konsep Teknologi Informasi",
      "Critical Thinking dan Problem Solving",
      "Matematika Dasar",
      "Bahasa Inggris",
      "Dasar Pemrograman",
      "Praktikum Dasar Pemrograman",
      "Keselamatan dan Kesehatan Kerja"
   };
      =======");
      System.out.println("
          Hitung Nilai IP Seoul
University
      =======");
      Scanner safrizal22 = new Scanner(System.in);
      int[] sks = {2,2,2,3,2,2,3,2};
```

```
double[] nilaiAngka = new double[8];
        String[] nilaiHuruf = new String[8];
        double[] bobotNilai = new double[8];
        double ip, totalIP = 0, ipSemester;
        int totalSKS = 0;
        for (int i = 0; i < course.length; i++) {</pre>
            System.out.print("Masukkan nilai angka untuk
course " + course[i] + ": ");
            nilaiAngka[i] = safrizal22.nextDouble();
            if (nilaiAngka[i] <= 100 && nilaiAngka[i] >
80) {
                nilaiHuruf[i] = "A";
                bobotNilai[i] = 4;
            } else if (nilaiAngka[i] <= 79 &&</pre>
nilaiAngka[i] > 73) {
                nilaiHuruf[i] = "B+";
                bobotNilai[i] = 3.5;
            } else if (nilaiAngka[i] <= 72 &&</pre>
nilaiAngka[i] > 65) {
                nilaiHuruf[i] = "B";
                bobotNilai[i] = 3;
            } else if (nilaiAngka[i] <= 64 &&</pre>
nilaiAngka[i] > 60) {
                nilaiHuruf[i] = "C+";
                bobotNilai[i] = 2.5;
            } else if (nilaiAngka[i] <= 59 &&</pre>
nilaiAngka[i] > 50) {
                nilaiHuruf[i] = "C";
                bobotNilai[i] = 2;
```

```
} else if (nilaiAngka[i] <= 49 &&</pre>
nilaiAngka[i] > 39) {
             nilaiHuruf[i] = "D";
             bobotNilai[i] = 1;
          } else if (nilaiAngka[i] <= 39) {</pre>
             nilaiHuruf[i] = "E";
             bobotNilai[i] = 0;
      =======");
      System.out.println("
            Hasil Konversi
                               ");
Nilai
      =======");
      System.out.printf("%-40s %-15s %-15s %-15s \n",
"course", "Nilai Angka", "Nilai Huruf", "Bobot Nilai");
      for (int i = 0;i < course.length;i++) {</pre>
          System.out.printf("%-43s %-17s %-14s %-1s
\n", course[i], nilaiAngka[i], nilaiHuruf[i],
bobotNilai[i]);
      }
      for (int i = 0;i < course.length;i++) {</pre>
          ip = bobotNilai[i] * sks[i];
          totalIP += ip;
          totalSKS += sks[i];
```

```
ipSemester = totalIP/totalSKS;
    System.out.printf("IP anda adalah " + "%.2f",
ipSemester);
}
```

```
ıy22 {
           : void main(String[] args) {
           ; = {2 2 2 3 2 2 3 2}
           nilaiAngka = new double[8];
           nilaiHuruf = new String[8]
           bobotNilai = new double[8]
                                          Hitung Nilai IP Seoul University
Masukkan nilai angka untuk course Pancasila: 100
Masukkan nilai angka untuk course Konsep Teknologi Informasi: 90
Masukkan nilai angka untuk course Critical Thinking dan Problem Solving: 90
Masukkan nilai angka untuk course Matematika Dasar: 90
Masukkan nilai angka untuk course Bahasa Inggris: 09
Masukkan nilai angka untuk course Dasar Pemrograman: 09
Masukkan nilai angka untuk course Praktikum Dasar Pemrograman: 90
Masukkan nilai angka untuk course Keselamatan dan Kesehatan Kerja: 90
                                            Hasil Konversi Nilai
course
                                         Nilai Angka
                                                        Nilai Huruf
                                                                         Bobot Nilai
Pancasila
                                            100.0
                                                                            4.0
Konsep Teknologi Informasi
                                            90.0
                                                                             4.0
Critical Thinking dan Problem Solving
                                            90.0
                                                                             4.0
Matematika Dasar
                                            90.0
                                                                             4.0
Bahasa Inggris
Dasar Pemrograman
                                            9.0
Praktikum Dasar Pemrograman
                                            90.0
Keselamatan dan Kesehatan Kerja
IP anda adalah 3.11
PS C:\Users\Safrizal Rahman>
```

2.4

```
public class RoyalGarden22 {
    public static void main(String[] args) {
```

```
tampilpendapatan();
        jumlahstok();
    }
    static void tampilpendapatan () {
    int[][] stock = {
            \{10, 5, 15, 7\},\
            {6, 11, 9, 12},
            {2, 10, 10, 5},
            {5, 7, 12, 9}
        };
        int[] harga = {75000, 50000, 60000, 10000};
        for (int i = 0; i < stock.length; i++) {</pre>
            int pendapatanCabang = 0;
            for (int j = 0; j < stock[i].length; <math>j++) {
                 pendapatanCabang += stock[i][j] *
harga[j];
            System.out.println("Pendapatan RoyalGarden "
+ (i + 1) + ": Rp " + pendapatanCabang);
    };
    static void jumlahstok() {
        int[][] stock = {
            \{10, 5, 15, 7\},\
            \{6, 11, 9, 12\},\
            \{2, 10, 10, 5\},\
```

```
{5, 7, 12, 9}
        };
        stock[3][0] -= 1; // Aqlonema
        stock[3][1] -= 2; // Keladi
        stock[3][3] -= 5; // Mawar
        System.out.println("Jumlah Stock pada Cabang
RoyalGarden 4:");
        System.out.println("Aglonema: " + stock[3][0]);
        System.out.println("Keladi: " + stock[3][1]);
        System.out.println("Alocasia: " + stock[3][2]);
        System.out.println("Mawar: " + stock[3][3]);
   };
```

```
Windows PowerShell
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PS C:\Users\Safrizal Rahman> & 'C:\Program Files\Microsoft\jdk-11.0.12.7-hotspot
:\Users\Safrizal Rahman\AppData\Local\Temp\vscodesws_66f4e\jdt_ws\jdt.ls-java-pro
Pendapatan RoyalGarden 1: Rp 1970000
Pendapatan RoyalGarden 2: Rp 1660000
Pendapatan RoyalGarden 3: Rp 1300000
Pendapatan RoyalGarden 4: Rp 1535000
Jumlah Stock pada Cabang RoyalGarden 4:
Aglonema: 4
Keladi: 5
Alocasia: 12
Mawar: 4
PS C:\Users\Safrizal Rahman>
```

Task

```
{"Jakarta"},
        {"Bandung"},
        {"Cirebon"},
        {"Bogor"},
        {"Pekalongan"},
        {"Semarang"},
        {"Surabaya"},
        {"Malang"},
        {"Tegal"}
    };
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Masukkan kode plat mobil: ");
        char kode = scanner.next().charAt(0);
        String kota = cariKota(kode);
        if (kota != null) {
            System.out.println("Kota: " + kota);
        } else {
            System.out.println("Kode plat tidak
valid.");
        hitungKecepatan();
        hitungJarak();
```

```
hitungWaktu();
    static String cariKota(char kode) {
        for (int i = 0; i < KODE.length; i++) {</pre>
            if (KODE[i] == kode) {
                return KOTA[i][0]; // Mengembalikan nama
        return null; // Mengembalikan null jika kode
    static void hitungKecepatan() {
        Scanner scanner = new Scanner(System.in);
        System.out.println("\n=== Menghitung Kecepatan
===");
        System.out.print("Masukkan jarak (km): ");
        double jarak = scanner.nextDouble();
        System.out.print("Masukkan waktu (jam): ");
        double waktu = scanner.nextDouble();
        double kecepatan = jarak / waktu;
        System.out.println("Kecepatan: " + kecepatan + "
km/jam");
```

```
}
   static void hitungJarak() {
       Scanner scanner = new Scanner(System.in);
       System.out.println("\n=== Menghitung Jarak
===");
       System.out.print("Masukkan kecepatan (km/jam):
");
       double kecepatan = scanner.nextDouble();
       System.out.print("Masukkan waktu (jam): ");
       double waktu = scanner.nextDouble();
       double jarak = kecepatan * waktu;
       System.out.println("Jarak: " + jarak + " km");
   }
   static void hitungWaktu() {
       Scanner scanner = new Scanner(System.in);
       System.out.println("\n=== Menghitung Waktu
===");
       System.out.print("Masukkan jarak (km): ");
       double jarak = scanner.nextDouble();
       System.out.print("Masukkan kecepatan (km/jam):
");
       double kecepatan = scanner.nextDouble();
       double waktu = jarak / kecepatan;
       System.out.println("Waktu: " + waktu + " jam");
```

```
}
```

```
debug configurations.
                                      public class Plat22 {
                                             static char[] KODE = {'A', 'B', 'D', 'E', 'F', 'G', 'H', 'L
                                             static String[][] KOTA = {
                                                   {"Banten"},
                                   5
                         Copyright (C) Microsoft Corporation. All rights reserved.
                         Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
                         PS C:\Users\Safrizal Rahman> & 'C:\Program Files\Microsoft\jdk-11.0.12.7-hotspot\bin\java.exe' '-agentl
                         lhost:54423' '-cp' 'C:\Users\Safrizal Rahman\AppData\Local\Temp\vscodesws_64d57\jdt_ws\jdt.ls-java-proje Masukkan kode plat mobil: H
                         Kota: Semarang
                         === Menghitung Kecepatan ===
Masukkan jarak (km): 100
Masukkan waktu (jam): 20
                         Kecepatan: 5.0 km/jam
                         === Menghitung Jarak ===
Masukkan kecepatan (km/jam): 200
                         Masukkan waktu (jam): 20
                         Jarak: 4000.0 km
                         === Menghitung Waktu ===
                         Masukkan jarak (km): 70
Masukkan kecepatan (km/jam): 1
                         Waktu: 70.0 jam
PS C:\Users\Safriz
```