

JOBSHEET 1

MUHAMMAD NAZRIL NUR RAHMAN

<https://github.com/nazrilnr/JobSMT2>

2.1

```
Click here to ask Blackbox to help you code faster
1 import java.util.Scanner;
2 public class pilihannilai {
    Run | Debug
3     public static void main(String[] args) {
4         Scanner input = new Scanner(System.in);
5         System.out.println(x:"Pemograman Menghitung Nilai Akhir");
6         System.out.println(x:"=====");
7
8         System.out.print(s:"Masukkan Nilai Tugas: ");
9         int tugas = input.nextInt();
10        System.out.print(s:"Masukkan Nilai Kuis : ");
11        int kuis = input.nextInt();
12        System.out.print(s:"Masukkan Nilai UTS : ");
13        int uts = input.nextInt();
14        System.out.print(s:"Masukkan Nilai UAS : ");
15        int uas = input.nextInt();
16        System.out.println(x:"=====");
17
18        double nilaiAkhir = (0.2 * tugas) + (0.3 * kuis) + (0.35 * uts) + (0.15 * uas);
19
20        if (nilaiAkhir >= 60) {
21            System.out.println("Nilai Akhir: " + nilaiAkhir);
22            System.out.println(x:"SELAMAT ANDA LULUS");
23            if (nilaiAkhir >= 80) {
24                System.out.println(x:"Nilai Huruf: A");
25            } else if (nilaiAkhir >= 73) {
26                System.out.println(x:"Nilai Huruf: B+");
27            } else if (nilaiAkhir >= 65) {
28                System.out.println(x:"Nilai Huruf: B");
29            } else if (nilaiAkhir >= 60) {
30                System.out.println(x:"Nilai Huruf: C+");
31            } else if (nilaiAkhir >= 50){
32                System.out.println(x:"Nilai Huruf: C");
33            } else {
34                System.out.println(x:"Nilai Huruf: D");
35            }
36        } else {
37            System.out.println(x:"nilai tidak valid");
38        }
39    }
40 }
```

```

03505515507117/Feandri.java/Job_ws/505_1_5
Pemograman Menghitung Nilai Akhir
=====
Masukkan Nilai Tugas: 90
Masukkan Nilai Kuis : 88
Masukkan Nilai UTS : 87
Masukkan Nilai UAS : 87
=====
Nilai Akhir: 87.89999999999999
SELAMAT ANDA LULUS
Nilai Huruf: A
nazril@Muhammads-MacBook-Air Job_1 %

```

2.2

```

1  import java.util.Scanner;
2  public class perulangan {
    Run | Debug
3      public static void main(String[] args) {
4          Scanner sc = new Scanner(System.in);
5
6          // Input NIM
7          System.out.print(s:"Masukkan NIM: ");
8          String nim = sc.nextLine();
9
10         // Mendapatkan 2 digit terakhir NIM
11         int n = Integer.parseInt(nim.substring(nim.length() - 2));
12
13         // Jika n < 10, tambahkan 10
14         if (n < 10) {
15             n += 10;
16         }
17
18         // Menampilkan deretan bilangan
19         System.out.print(s:"OUTPUT: ");
20         System.out.println("n = " + n);
21         for (int i = 1; i <= n; i++) {
22             if (i != 6 && i != 10) {
23                 if (i % 2 != 0) {
24                     System.out.print(s:"* ");
25                 } else {
26                     System.out.print(i + " ");
27                 }
28             }
29         }
30     }
31 }

```

workspacestorage/448202159c93e104c70035095153e714/learnai.java/jut_ws/Job_1_05201010/bin perulangan

Masukkan NIM: 2341760174

OUTPUT: n = 74

* 2 * 4 * 8 * 12 * 14 * 16 * 18 * 20 * 22 * 24 * 26 * 28 * 30 * 32 * 34 * 36 * 38 * 40 * 42 * 44 * 46 * 48 * 50 * 52 * 54 * 56 * 58 * 60 * 62 * 64 * 66 * 68 * 70 * 72 * 74

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2.3

```
1  import java.util.Scanner;
2  import java.util.ArrayList;
3  import java.util.List;
4
5  public class array {
6      private static List<List> arrayMatakuliah = new ArrayList<>();
7      private static Scanner input = new Scanner(System.in);
8      Run | Debug
9      public static void main(String[] args) {
10         Scanner scanner = new Scanner(System.in);
11
12         double[] sksWeights = { 3, 3, 3, 4, 2, 3, 2, 2 };
13         double[] equivalentValues = { 3.5, 4.0, 3.0, 3.5, 4.0, 2.0, 2.0, 4.0 };
14
15         double totalWeightedValue = 0;
16         double totalSKS = 0;
17         // double equivalentValues = 0;
18
19         // Input data for each course
20         String[] courses = {
21             "Pancasila",
22             "Konsep Teknologi Informasi",
23             "Critical Thinking dan Problem Solving",
24             "Matematika Dasar",
25             "Bahasa Inggris",
26             "Dasar Pemrograman",
27             "Praktikum Dasar Pemrograman",
28             "Keselamatan dan Kesehatan Kerja"
29         };
30
31         for (int i = 0; i < courses.length; i++) {
32             System.out.print("Masukkan nilai Angka untuk MK " + courses[i] + ": ");
33             double nilaiAngka = scanner.nextDouble();
34
35             if (nilaiAngka < 0 || nilaiAngka > 100) {
36                 System.out.println(x:"Nilai tidak valid");
37                 return;
38             }
39
40             totalWeightedValue += nilaiAngka * sksWeights[i];
41             totalSKS += sksWeights[i];
42         }
43     }
44 }
```

```

43     double ipSemester = totalWeightedValue / totalSKS;
44
45     System.out.println("\nIP Semester: " + ipSemester);
46     System.out.println("Keterangan: " + getKeterangan(ipSemester));
47
48     if(arrayMatakuliah.size() < 1){
49         System.out.println(x:"Belum ada data Matakuliah yang dimasukkan");
50         return;
51     }else{
52         System.out.println(x:"Matakuliah yang Anda ambil adalah: ");
53         int gradeSKS = 0;
54         double totalGradeSKS = 0;
55         double countSKS = 0;
56         for(int i = 0; i < arrayMatakuliah.size(); i++){
57             String kdMatakuliah = (arrayMatakuliah.get(i)).get(index:0).toString();
58             String nmMatakuliah = (arrayMatakuliah.get(i)).get(index:1).toString();
59             String grMatakuliah = (arrayMatakuliah.get(i)).get(index:2).toString().toUpperCase();
60             String sksMatakuliah = (arrayMatakuliah.get(i)).get(index:3).toString();
61
62             System.out.println(kdMatakuliah + "      " + nmMatakuliah + "      " + grMatakuliah + "      " + sksMatakuliah );
63             int grade;
64             switch (grMatakuliah){
65                 case "A":
66                     grade = 4;
67                     break;
68                 case "B":
69                     grade = 3;
70                     break;
71                 case "C":
72                     grade = 2;
73                     break;
74                 case "D":
75                     grade = 1;
76                     break;
77                 default:
78                     grade = 0;
79                     break;
80             }
81             gradeSKS = grade * Integer.parseInt(sksMatakuliah);
82             totalGradeSKS = totalGradeSKS + gradeSKS;
83             countSKS = countSKS + Integer.parseInt(sksMatakuliah);
84         }
85     }

```

```

77         default:
78             grade = 0;
79             break;
80     }
81     gradeSKS = grade * Integer.parseInt(sksMatakuliah);
82     totalGradeSKS = totalGradeSKS + gradeSKS;
83     countSKS = countSKS + Integer.parseInt(sksMatakuliah);
84 }
85
86 double nilaiIPS = totalGradeSKS / countSKS;
87 System.out.println("Nilai IPS Anda adalah " + nilaiIPS);
88 }
89
90
91 public static String getKeterangan(double ip) {
92     if (ip >= 2.75) {
93         return "LULUS";
94     } else {
95         return "TIDAK LULUS";
96     }
97 }
98 }

```

Masukkan nilai Angka untuk MK Pancasila: 80
 Masukkan nilai Angka untuk MK Konsep Teknologi Informasi: 90
 Masukkan nilai Angka untuk MK Critical Thinking dan Problem Solving: 97
 Masukkan nilai Angka untuk MK Matematika Dasar: 89
 Masukkan nilai Angka untuk MK Bahasa Inggris: 90
 Masukkan nilai Angka untuk MK Dasar Pemrograman: 90
 Masukkan nilai Angka untuk MK Praktikum Dasar Pemrograman: 97
 Masukkan nilai Angka untuk MK Keselamatan dan Kesehatan Kerja: 90

IP Semester: 90.04545454545455
 Keterangan: LULUS
 Belum ada data Matakuliah yang dimasukkan
 nazril@Muhammads-MacBook-Air Job_1 %

2.4

```
1 public class royalgarden {
2     public static void main(String[] args) {
3         tampilpendapatan();
4         jumlahstok();
5     }
6     static void tampilpendapatan () {
7         int[][] stock = {
8             {10, 5, 15, 7},
9             {6, 11, 9, 12},
10            {2, 10, 10, 5},
11            {5, 7, 12, 9}
12        };
13
14        int[] harga = {75000, 50000, 60000, 10000};
15
16        // Menghitung pendapatan setiap cabang
17        for (int i = 0; i < stock.length; i++) {
18            int pendapatanCabang = 0;
19            for (int j = 0; j < stock[i].length; j++) {
20                pendapatanCabang += stock[i][j] * harga[j];
21            }
22            System.out.println("Pendapatan RoyalGarden " + (i + 1) + ": Rp " + pendapatanCabang);
23        }
24    };
25    static void jumlahstok() {
26        int[][] stock = {
27            {10, 5, 15, 7},
28            {6, 11, 9, 12},
29            {2, 10, 10, 5},
30            {5, 7, 12, 9}
31        };
32
33        // Pengurangan stock karena bunga mati
34        stock[3][0] -= 1; // Aglonema
35        stock[3][1] -= 2; // Keladi
36        // Alocasia tidak berubah
37        stock[3][3] -= 5; // Mawar
38
39        // Menampilkan jumlah stock setiap jenis bunga pada cabang RoyalGarden 4
40        System.out.println(x:"Jumlah Stock pada Cabang RoyalGarden 4:");
41        System.out.println("Aglonema: " + stock[3][0]);
42        System.out.println("Keladi: " + stock[3][1]);
```

```
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  
nazril@Muhammads-MacBook-Air Job_1 %
```