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Absen : 21

Tugas Jobsheet Pertemuan 1

Praktikum Pemilihan

```
1 import java.util.Scanner;
2
3 /**
4  * PraktikumPemilihan21
5  */
6 public class PraktikumPemilihan21 {
7
8     public static void main(String[] args) {
9         Scanner sc = new Scanner(System.in);
10         int tugas, kuis, uts, uas;
11
12         while (true) {
13             System.out.print(s:"Masukkan nilai tugas : ");
14             tugas = sc.nextInt();
15             System.out.print(s:"Masukkan nilai kuis : ");
16             kuis = sc.nextInt();
17             System.out.print(s:"Masukkan nilai UTS : ");
18             uts = sc.nextInt();
19             System.out.print(s:"Masukkan nilai UAS : ");
20             uas = sc.nextInt();
21             if (tugas >= 0 && tugas <= 100 && kuis >= 0 && kuis <= 100 && uts >= 0 && uts <= 100 && uas >= 0
22                 && uas <= 100) {
23                 break;
24             } else {
25                 System.out.println(x:"Nilai harus berada di range 0-100");
26             }
27         }
28
29         double persen = (tugas * 0.2) + (kuis * 0.2) + (uts * 0.3) + (uas * 0.3);
30
31         if (persen > 80) {
32             System.out.println(x:"Nilai Huruf A");
33         } else if (persen >= 80) {
34             System.out.println(x:"Nilai Huruf B+");
35         } else if (persen >= 73) {
36             System.out.println(x:"Nilai Huruf B");
37         } else if (persen >= 65) {
38             System.out.println(x:"Nilai Huruf C+");
39         } else if (persen >= 60) {
40             System.out.println(x:"Nilai Huruf C");
41         } else if (persen >= 50) {
42             System.out.println(x:"Nilai Huruf D");
43         } else if (persen <= 39) {
44             System.out.println(x:"Nilai Huruf E");
45         }
46
47         String message = persen < 50 ? "tidak lulus" : "lulus";
48         System.out.println("nilai akhir " + persen);
49         System.out.println(message);
50     }
51 }
52 }
```

Output

```
PS D:\Semester2\algoritma\algo-jobsheet1> d:; cd 'd:\Semester2\algoritma\algo-jobsheet1'; & 'C:\Program Files\Java\jdk-17\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages'
'-cp' 'C:\Users\WINDOMAS 10\AppData\Roaming\Code\User\workspaceStorage\2c28a8a2b70a70d3ecedealcfc83e97\redhat.java\jdt_ws\algo-jobsheet1_dcd569b4\bin' 'PraktikumPemilihan21'
Masukkan nilai tugas : 80
Masukkan nilai kuis : 80
Masukkan nilai UTS : 80
Masukkan nilai UAS : 80
Nilai Huruf B+
nilai akhir 80.0
lulus
PS D:\Semester2\algoritma\algo-jobsheet1> d:; cd 'd:\Semester2\algoritma\algo-jobsheet1'; & 'C:\Program Files\Java\jdk-17\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages'
'-cp' 'C:\Users\WINDOMAS 10\AppData\Roaming\Code\User\workspaceStorage\2c28a8a2b70a70d3ecedealcfc83e97\redhat.java\jdt_ws\algo-jobsheet1_dcd569b4\bin' 'PraktikumPemilihan21'
Masukkan nilai tugas : 40
Masukkan nilai kuis : 90
Masukkan nilai UTS : 20
Masukkan nilai UAS : 20
Nilai Huruf E
nilai akhir 38.0
tidak lulus
```

Praktikum Perulangan

```
import java.util.Scanner;

public class PraktikumPerulangan21 {
    Run | Debug
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.print(s:"Masukkan NIM: ");
        String nim = sc.nextLine();

        int nimDigitTerakhir = Integer.parseInt(nim.substring(nim.length() - 2));

        int n = nimDigitTerakhir;
        if (n < 10) {
            n += 10;
        }
        for (int i = 1; i <= n; i++) {
            if (i != 6 && i != 10) {
                if (i % 2 == 1) {
                    System.out.print(s:"* ");
                } else {
                    System.out.print(i + " ");
                }
            }
        }
    }
}
```

Output

```
PS D:\Semester2\algoritma\algo-jobsheet1> & 'C:\Program Files\Java\jdk-17\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\WINDOWS 10\AppData\Roaming\Code\User\workspaceStorage\2c28a8a2b70a70d3ecedealcfc83e97\redhat.java\jdt_ws\algo-jobsheet1_dcd569b4\bin' 'PraktikumPerulangan21'
Masukkan NIM: 2341760012
* 2 * 4 * * 8 * * 12
PS D:\Semester2\algoritma\algo-jobsheet1> d;; cd 'd:\Semester2\algoritma\algo-jobsheet1'; & 'C:\Program Files\Java\jdk-17\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\WINDOWS 10\AppData\Roaming\Code\User\workspaceStorage\2c28a8a2b70a70d3ecedealcfc83e97\redhat.java\jdt_ws\algo-jobsheet1_dcd569b4\bin' 'PraktikumPerulangan21'
Masukkan NIM: 2341760013
* 2 * 4 * * 8 * * 12 *
```

Praktikum Array

```
1 import java.util.Scanner;
2 import java.util.Arrays;
3 public class PraktikumArray21 {
4     Run | Debug
5     public static void main(String[] args) {
6         Scanner sc = new Scanner(System.in);
7         String []MK= ("Agama","Konsep TI","CTPS","Matematika Dasar","Bahasa Inggris",
8         ,"Dasar Pemrograman","Praktikum Daspro","PAMB");//array nama mata kuliah
9         int []sks = {2,2,2,2,2,2,3,2};
10        String[]huruf = new String[MK.length];
11        double[]nilaisetara = new double[MK.length];
12        double[]nilai = new double[MK.length];
13
14        for (int i = 0; i < MK.length; i++) {
15            System.out.print("Masukkan nilai "+MK[i]+" : ");
16            nilai[i] = sc.nextInt();
17
18            if (nilai[i] >= 80 && nilai[i] <= 100) {
19                huruf[i] = "A";
20                nilaisetara[i] = 4.0;
21            } else if (nilai[i] >= 73 && nilai[i] < 80) {
22                huruf[i] = "B+";
23                nilaisetara[i] = 3.5;
24            } else if (nilai[i] >= 65 && nilai[i] < 73) {
25                huruf[i] = "B";
26                nilaisetara[i] = 3.0;
27            } else if (nilai[i] >= 60 && nilai[i] < 65) {
28                huruf[i] = "C+";
29                nilaisetara[i] = 2.5;
30            } else if (nilai[i] >= 50 && nilai[i] < 60) {
31                huruf[i] = "C";
32                nilaisetara[i] = 2.0;
33            } else if (nilai[i] >= 39 && nilai[i] < 50) {
34                huruf[i] = "D";
35                nilaisetara[i] = 1.0;
36            } else {
37                huruf[i] = "E";
38                nilaisetara[i] = 0.0;
39            }
40        }
41
42        System.out.printf(format:"%-20s %-20s %-10s %-10s %n", ...args:"Mata Kuliah", "Nilai Angka", "Nilai Huruf", "Nilai Setara");
43        double totalNilaiSetara = 0;
44        double totalsks = 0;
45        for (int i = 0; i < MK.length; i++) {
46            System.out.printf(format:"%-20s %-20s %-10s %-10.2f%n", MK[i],nilai[i],huruf[i], nilaisetara[i]);
47            totalNilaiSetara += nilaisetara[i] * sks[i];
48            totalsks += sks[i];
49        }
50
51        double ipSemester = totalNilaiSetara / totalsks;
52        System.out.printf(format:"%nIP Semester: %.2f%n", ipSemester);
53    }
54 }
```

output

```
Masukkan nilai Agama : 91
Masukkan nilai Konsep TI : 78
Masukkan nilai CTPS : 92
Masukkan nilai Matematika Dasar : 66
Masukkan nilai Bahasa Inggris : 91
Masukkan nilai Dasar Pemrograman : 77
Masukkan nilai Praktikum Daspro : 90
Masukkan nilai PAMB : 77
Mata Kuliah      Nilai Angka      Nilai Huruf Nilai Setara
Agama            91.0            A             4.00
Konsep TI        78.0            B+            3.50
CTPS             92.0            A             4.00
Matematika Dasar 66.0            B             3.00
Bahasa Inggris   91.0            A             4.00
Dasar Pemrograman 77.0            B+            3.50
Praktikum Daspro 90.0            A             4.00
PAMB             77.0            B+            3.50
IP Semester: 3.68
```

Praktikum Fungsi

```
1 public class PraktikumFungsi21 {
2     Run | Debug
3     public static void main(String[] args) {
4
5         int[][] stockBunga = {
6             {10, 5, 15, 7},
7             {6, 11, 9, 12},
8             {2, 10, 10, 5},
9             {5, 7, 12, 9},
10        };
11        int[] penguranganStock = {1, 2, 0, 5};
12        double[] harga = {75000, 50000, 60000, 10000};
13
14        //pemanggilan fungsi pendapatan setiap cabang
15        pendapatanCabang(stockBunga, harga);
16
17        //pemanggilan fungsi pengurangan stok cabang "Royal Garden 4"
18        stockBungaRoyalGarden4(stockBunga, penguranganStock);
19    }
20
21    public static void pendapatanCabang(int[][] stockBunga, double[] harga) {
22        double[] pendapatan = new double[stockBunga.length];
23
24        for (int i = 0; i < stockBunga.length; i++) {
25            double total = 0;
26            for (int j = 0; j < stockBunga[i].length; j++) {
27                total += stockBunga[i][j] * harga[j];
28            }
29            pendapatan[i] = total;
30        }
31
32        System.out.println("Pendapatan setiap cabang:");
33        for (int i = 0; i < pendapatan.length; i++) {
34            System.out.printf(format:"Royal Garden %d: %.2f\n", i+1, pendapatan[i]);
35        }
36    }
37
38    public static void stockBungaRoyalGarden4(int[][] stockBunga, int[] penguranganStock) {
39        int[] Aglonema = stockBunga[3];
40        int[] Keladi = stockBunga[3];
41        int[] Alocasia = stockBunga[3];
42        int[] Mawar = stockBunga[3];
43
44
45        Aglonema[0] -= penguranganStock[0];
46        Keladi[1] -= penguranganStock[1];
47        Alocasia[2] -= penguranganStock[2];
48        Mawar[3] -= penguranganStock[3];
49
50        System.out.printf(format:"Stock bunga pada cabang Royal Garden 4: %n");
51        System.out.printf(format:"Aglonema: %d\n", Aglonema[0]);
52        System.out.printf(format:"Keladi: %d\n", Keladi[1]);
53        System.out.printf(format:"Alocasia: %d\n", Alocasia[2]);
54        System.out.printf(format:"Mawar: %d\n", Mawar[3]);
55    }
56 }
57
58
```

Output

```
PS D:\Semester2\algoritma\algo-jobsheet1> & 'C:\Program Files\Java\jdk-17\bin\
a\jdt_ws\algo-jobsheet1_dcd569b4\bin' 'PraktikumFungsi21'
Pendapatan setiap cabang:
Royal Garden 1: 1970000.00
Royal Garden 2: 1660000.00
Royal Garden 3: 1300000.00
Royal Garden 4: 1535000.00
Stock bunga pada cabang Royal Garden 4:
Aglonema: 4
Keladi: 5
Alocasia: 12
Mawar: 4
PS D:\Semester2\algoritma\algo-jobsheet1>
```