PRAKTIKUM PEMROGRAMAN DASAR I : ARRAY SATU DIMENSI

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KELAS : TI B (B1)

Aktivitas

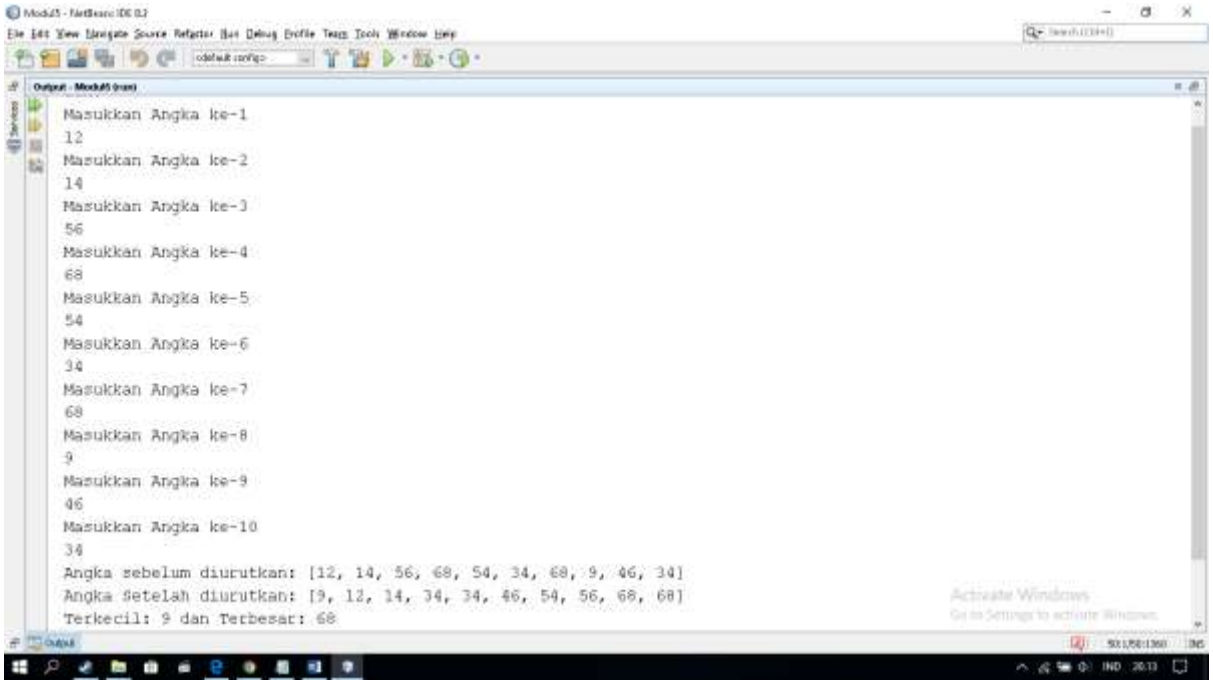
Buatlah *project* untuk memasukkan 10 bilangan ke dalam sebuah array satu dimensi. Lanjutkan dengan menginisialisasi sebuah array satu dimensi lagi untuk menyimpan hasil pengurutan dari array sebelumnya. Dari *project* tersebut, tampilkan nilai terbesar, nilai terkecil, dan rata-rata dari 10 bilangan tersebut.

Script :

```
1.  package modul5;
2.  import java.util.Scanner;
3.  import java.util.Arrays;
4.
5.  /**
6.   *
7.   * @author irfan
8.   */
9.  public class Mod4 {
10.
11.     /**
12.      * @param args the command line arguments
13.      */
14.     public static void main(String[] args) {
15.         Scanner sc = new Scanner(System.in);
16.         int[] index1 = new int[10];
17.         int[] index2 = new int[10];
18.
19.         int a, b;
20.         float average = 0;
21.
22.         for(a =0; a < index1.length; a++){
23.             System.out.println("Masukkan Angka ke-"+(a+1));
24.             index1[a] = sc.nextInt();
25.             average += index1[a];
26.         }
27.
28.         System.out.println("Angka sebelum diurutkan: "+Arrays.toString(index1));
29.
30.         for (a = 0; a < index1.length; a++) {
31.             for (b = a + 1; b < index1.length; b++) {
32.                 int tmp;
33.                 if (index1[a] > index1[b]) {
34.                     tmp = index1[a];
35.                     index1[a] = index1[b];
36.                     index1[b] = tmp;
37.                 }
38.             }
39.         }
40.
41.         for (a = 0; a < index1.length; a++) {
42.             index2[a] = index1[a];
43.         }
44.
45.         System.out.println("Angka Setelah diurutkan: "+Arrays.toString(index2));
46.         System.out.println("Terkecil: "+index2[0]+" dan Terbesar: "+index2[9]);
```

```
47.         System.out.println("Rata-rata: "+average/index1.length);
48.     }
49. }
```

Screenshot :



Latihan

Buatlah *project* dengan tampilan seperti di bawah ini, dan gunakan array satu dimensi untuk mempermudah pembuatan *project* Anda.

NRP	Tugas	UTS	UAS	Nilai Akhir	Grade
111	40	50	60	*Output*	*Output*
222	50	60	70	*Output*	*Output*
333	60	70	80	*Output*	*Output*
444	70	80	90	*Output*	*Output*
555	80	90	100	*Output*	*Output*

NRP, Tugas, UTS dan UAS diinputkan, dan gunakan array untuk menyimpan masing-masing inputan. Hitung nilai akhir dan *grade*-nya dan simpan dalam array dengan ketentuan **Nilai akhir = Tugas * 10% + UTS * 30% + UAS * 60%** dan *grade* :

Grade	Rentang Nilai
A	80 – 100
B	70 – 79
C	56 – 69
D	44 – 55
E	0 – 43

Script :

```
1.  /*
2.   * To change this license header, choose License Headers in Project Properties.
3.   * To change this template file, choose Tools | Templates
4.   * and open the template in the editor.
5.   */
6.  package modul6;
7.
8.  /**
9.   *
10.  * @author Irfan
11.  */
12. /*
13.      * To change this license header, choose License Headers in Project Properties.

14.      * To change this template file, choose Tools | Templates
15.      * and open the template in the editor.
16.  */
17. import java.util.Arrays;
18. import java.util.Scanner;
19.
20. /**
21.  *
22.  * @author Irfan
23.  */
24. public class latihan {
25.
26.     public static void main(String[] args) {
27.         int[] nilaiuts = new int[5];
28.         int[] nilaitugas = new int[5];
29.         int[] nilaiuas = new int[5];
30.         int[] nrp = new int[5];
31.         String[] grade = new String[5];
32.         double[] nilaiakhir = new double[5];
33.         String[] label ={"NRP","TUGAS","UT","UAS","NA","Grade"};
34.         Scanner sc = new Scanner(System.in);
35.
```

```
36.
37.          int a ;
38.          for (a = 0; a < nrp.length; a++){
39.         System.out.println("Masukkan NRP Anda: ");
40.         nrp[a]= sc.nextInt();
41.             System.out.print("Masukkan Nilai UTS Anda: ");
42.             nilaiuts[a] = sc.nextInt(); //0.3
43.             System.out.print("Masukkan Nilai Tugas Anda: ");
44.             nilaitugas[a] = sc.nextInt(); //0.2
45.             System.out.print("Masukkan Nilai UAS Anda: ");
46.             nilaiuas[a] = sc.nextInt();//0.5
47.              nilaiakhir[a] = (nilaitugas[a] * 0.1) + (nilaiuts[a] * 0.3) + (nilaiua
    s[a] * 0.6);
48.             if ((nilaiakhir[a] >= 80) && (nilaiakhir[a] <= 100)) {
49.                 grade[a] = "A";
50.             } else if ((nilaiakhir[a] >= 70) && (nilaiakhir[a] < 80)) {
51.                 grade[a] = "B";
52.             } else if ((nilaiakhir[a] >= 56) && (nilaiakhir[a] < 70)) {
53.                 grade[a] = "C";
54.             } else if ((nilaiakhir[a] >= 44) && (nilaiakhir[a] < 56)) {
55.                 grade[a] = "D";
56.             } else if ((nilaiakhir[a] >= 0) && (nilaiakhir[a] < 44)) {
57.                 grade[a] = "E";
58.             }}
59.             System.out.println(Arrays.toString(label));
60.             for(a = 0; a < nrp.length; a++){
61.             System.out.println("-------------------------------------------------
    ------------------------------------------------------------");
62.             System.out.println("|\t\tNRP\t|\tTugas\t|\tUTS\t|\tUAS\t|\tNilai Akhir\
    t|\tGrade\t|");
63.             System.out.println("|\t " + nrp[a] + "\t|\t" + nilaitugas[a] + "\t|\t"
    + nilaiuts[a] + "\t|\t" + nilaiuas[a] + "\t|\t" + nilaiakhir[a] + "\t\t|\t" + grade
    [a] + "\t|");
64.             System.out.println("-------------------------------------------------
    ------------------------------------------------------------");
65.         }
66.     }
67. }
```

Screenshot :