LAPORAN PEMBUATAN PROGRAM JAVA INDIVIDU



Oleh:

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```
import java.util.*;
public class program7_3 {
      public static void main(String[] args) {
             Scanner input = new Scanner(System.in);
             // Array 100 angka 1-100
             int[] angka = new int[100];
             int[] jmlsama = new int[100];
             for (int i = 0; i < 100; i++) {
                    angka[i] = i + 1;
             }
             // Masukkan angka
             System.out.println("Masukkan integer antara 1 - 100: ");
             while (0 < 1) {
                    int j = input.nextInt();
                    // Membandingkan dengan angka 1-100
                    for (int i = 0; i < 100; i++) {
                           // Jika sama jumlah sama nambah 1
                           if (j == angka[i])
                                 jmlsama[i] += 1;
                    }
                    // Jika input 0 maka selesai
                    if (j == 0)
                          break;
             }
             // Menampilkan angka yang dimasukkan dan muncul brp kali
             for (int i = 0; i < 100; i++) {
                    if (jmlsama[i] > 0)
                           System.out.printf("%d muncul %d kali %n", angka[i],
jmlsama[i]);
      }
}
/*
OUTPUT
=====
Masukkan integer antara 1 - 100:
4 2 4 5 2 4 0
2 muncul 2 kali
4 muncul 3 kali
5 muncul 1 kali
*/
```

```
import java.util.*;
public class program7_8 {
      public static void main(String[] args) {
             Scanner input = new Scanner(System.in);
             double[] angka = new double[10];
             System.out.println("Masukkan 10 angka double");
             for (int i = 0; i < 10; i++) {
                    angka[i] = input.nextDouble();
             System.out.println("Rata2nya adalah: " + average(angka));
      }
      public static int average(int[] array) {
             int total = 0;
             for (int i : array) {
                    total += i;
             }
             return total / array.length;
      }
      public static double average(double[] array) {
             double total = 0;
             for (double i : array) {
                    total += i;
             return total / array.length;
      }
}
=====
OUTPUT
=====
Masukkan 10 angka double
3.0 1.4 1.2 5.6 3.4 1.0 0.5 3.3 5.8 9.6
Rata2nya adalah: 3.48000000000000004
```

```
import java.util.*;
public class program7_15 {
      public static void main(String[] args) {
             Scanner input = new Scanner(System.in);
             int[] angka = new int[10];
             // Memasukkan 10 angka
             System.out.println("Masukkan 10 angka:");
             for (int i = 0; i < 10; i++) {
                    angka[i] = input.nextInt();
             }
             // Menampilkan angka distinct
             System.out.print("Angka distinct: ");
             for (int i : eliminateDuplicate(angka)) {
                    if (i > 0)
                           System.out.print(i + " ");
             }
      }
       public static int[] eliminateDuplicate(int[] list) {
             int[] elim = new int[list.length];
             for (int i = 0;i < list.length;i++) {</pre>
                    if (!isExist(elim, list[i]))
                           elim[i] = list[i];
             }
             return elim;
      }
       public static boolean isExist(int[] array, int a) {
             boolean exist = false;
             for (int i : array) {
                    if (i == a)
                           exist = true;
             return exist;
      }
}
/*
=====
OUTPUT
=====
Masukkan 10 angka:
2 1 3 4 6 2 7 8 9 1
Angka distinct: 2 1 3 4 6 7 8 9
```

```
import java.util.*;
public class program7 19 {
      public static void main(String[] args) {
             Scanner input = new Scanner(System.in);
             // Memasukkan angka
             System.out.print("Masukkan jumlah angka: ");
             int size = input.nextInt();
             int[] angka = new int[size];
             for (int i = 0; i < size; i++) {
                    angka[i] = input.nextInt();
             }
             // Menampilkan angka yang diiinput
             System.out.print("Array => ");
             for (int i : angka) {
                    System.out.print(i + " ");
             System.out.println(" ");
             // Cek dan tampilkan isSort
             if (isSort(angka)) {
                    System.out.print("Angka dalam array URUT");
             }
             else {
                    System.out.print("Angka dalam array TIDAK URUT");
             }
      }
       public static boolean isSort(int[] array) {
             boolean sort = true;
             for (int i = 0;i < array.length;i++) {</pre>
                    if (array[i] == min(array)) {
                           array[i] = max(array) + 1;
                    }
                    else {
                           sort = false;
                           break;
                    }
             return sort;
      }
      public static int max(int[] array) {
             int max = array[0];
             for (int i = 0;i < array.length;i++) {</pre>
                    if (max < array[i]) {</pre>
                           max = array[i];
                    }
             return max;
      }
```

```
public static int min(int[] array) {
             int min = array[0];
             for (int i = 0;i < array.length;i++) {</pre>
                    if (min > array[i]) {
                           min = array[i];
                    }
             return min;
      }
}
/*
OUTPUT
=====
----
RUN 1
Masukkan jumlah angka: 4
34
22
33
56
Array => 34 22 33 56
Angka dalam array TIDAK URUT
____
RUN 2
Masukkan jumlah angka: 4
21
45
77
82
Array => 21 \ 45 \ 77 \ 82
Angka dalam array URUT
*/
```

```
import java.util.*;
public class program7 34 {
       public static void main(String[] args) {
             Scanner input = new Scanner(System.in);
             System.out.print("Masukkan string: ");
             String s = input.next();
             System.out.print("Urutan string: " + sort(s));
      }
       public static String sort(String s) {
             // Membuat array integer masing" karakter string
             char[] str1 = new char[s.length()];
             char[] str2 = new char[s.length()];
             int[] sInt = new int[s.length()];
             for (int i = 0;i < s.length();i++) {</pre>
                    str1[i] = s.charAt(i);
                    str2[i] = s.charAt(i);
                    sInt[i] = (int)(s.charAt(i));
             }
             // Memasukkan karakter yang urut ke str2
             for (int i = 0;i < s.length();i++) {</pre>
                    for (int j = 0;j < s.length();j++) {</pre>
                           if (sInt[j] == min(sInt)) {
                                  str2[i] = str1[j];
                                  sInt[j] = max(sInt) + 1;
                                  break;
                           }
                    }
             }
             // Memasukkan array str2 ke sebuah String
             String sorted = "";
             for (char st : str2) {
                    sorted = sorted + st;
             return sorted;
      }
       public static int max(int[] array) {
             int max = array[0];
             for (int i = 0;i < array.length;i++) {</pre>
                    if (max < array[i]) {</pre>
                           max = array[i];
                    }
             return max;
      }
      public static int min(int[] array) {
             int min = array[0];
             for (int i = 0;i < array.length;i++) {</pre>
```