PRAKTIKUM PEMROGRAMAN DASAR I : ARRAY DUA DIMENSI

NRP : 171111051
NAMA : Muhammad Irfan Syarifuddin
KELAS : B1

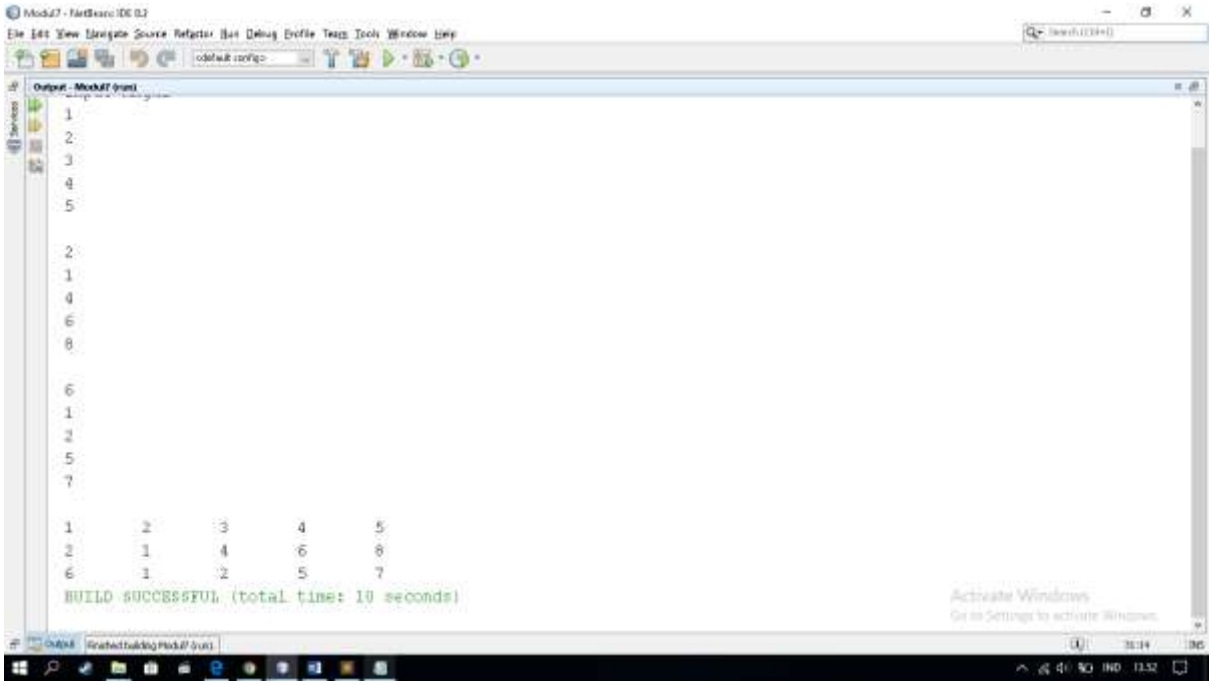
Aktivitas

1. Buatlah program untuk memasukkan 5 angka ke dalam baris pertama sebuah array dua dimensi. Lanjutkan dengan memasukkan 5 angka ke dalam baris kedua dan ketiga.

   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 modul7;
7.  import java.util.Scanner;
8.  /**
9.   *
10.  * @author Irfan
11.  */
12. public class Modul7 {
13.
14.     /**
15.      * @param args the command line arguments
16.      */
17.     public static void main(String[] args) {
18.         // TODO code application logic here
19.     Scanner sc =new Scanner(System.in);
20.     int i, j, kolom, baris;
21.
22.     kolom =3;
23.     baris =5;
24.
25.     int [][] a =new int [kolom][baris];
26.
27.         System.out.println("Input Angka");
28.         for (i=0; i<3;i++){
29.             for (j=0; j<5; j++){
30.         a[i][j]= sc.nextInt();
31.             }
32.             System.out.println();
33.         }
34.     for ( i=0; i<a.length; i++){
35.         for(j=0; j<a[i].length; j++){
36.             System.out.print(a[i][j]+"\t");
37.     }
38.         System.out.println();
39. }}
40. }
```

Screenshot :



2. Buatlah program untuk mengimplementasikan array dua dimensi berukuran 3 x 4, di mana nilai-nilai yang diberikan harus diinputkan dari keyboard!

Script :

```
1.  /*
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3.   * To change this template file, choose Tools | Templates
4.   * and open the template in the editor.
5.   */
6.  package modul7;
7.  import java.util.Scanner;
8.  /**
9.   *
10.  * @author Irfan
11.  */
12. public class Modul71 {
13.
14.     /**
15.      * @param args the command line arguments
16.      */
17.     public static void main(String[] args) {
18.         // TODO code application logic here
19.     Scanner sc =new Scanner(System.in);
20.     int i, j, kolom, baris;
21.
22.     kolom =4;
23.     baris =3;
24.
25.     int [][] a =new int [kolom][baris];
26.
27.         System.out.println("Input Angka");
28.         for (i=0; i<4;i++){
29.             for (j=0; j<3; j++){
30.         a[i][j]= sc.nextInt();
31.             }
32.             System.out.println();
33.         }
```
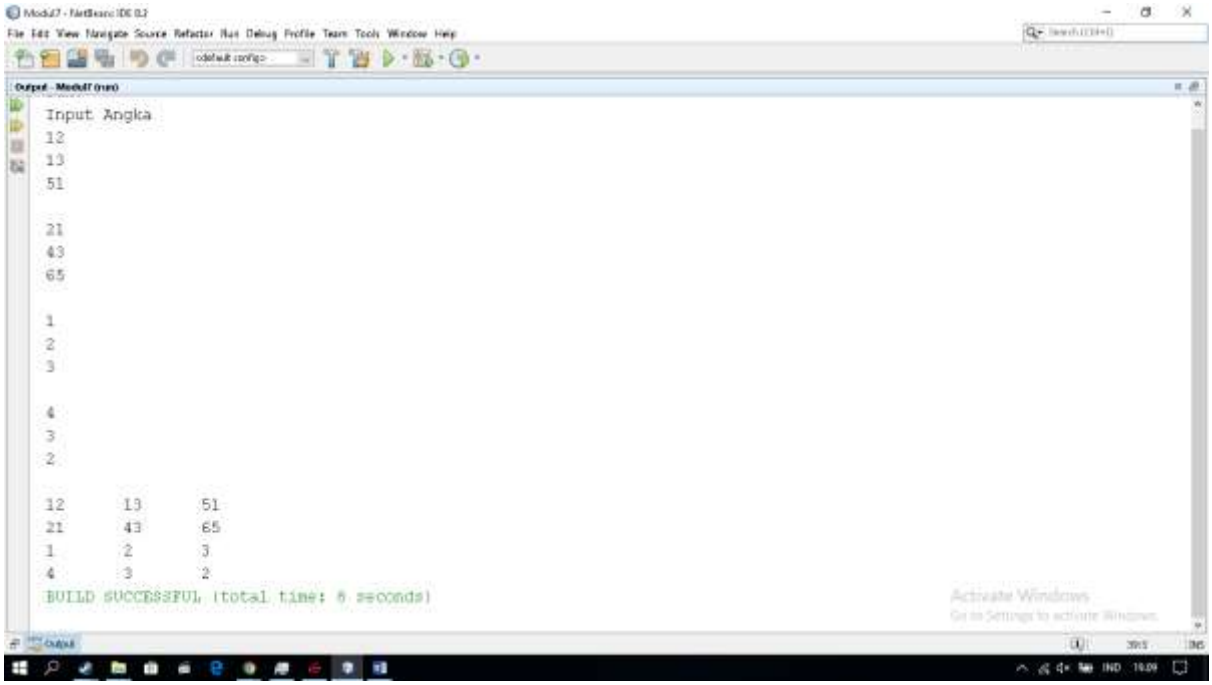

```
34.     for ( i=0; i<a.length; i++){
35.         for(j=0; j<a[i].length; j++){
36.             System.out.print(a[i][j]+"\t");
37.     }
38.         System.out.println();
39. }}
40. }
```

Screenshot :



Latihan

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

	y	sin(x)*cos(y)	cos(x)*sin(y)	sin(x)*sin(y)	cos(x)*cos(y)
45	45	*Output*	*Output*	*Output*	*Output*
135	135	*Output*	*Output*	*Output*	*Output*
225	225	*Output*	*Output*	*Output*	*Output*
315	315	*Output*	*Output*	*Output*	*Output*

Latihan ini menggunakan array dua dimensi yang terdiri dari 4 baris dan 6 kolom. Nilai *x* dan *y* ditentukan diawal, dengan memanfaatkan perulangan untuk menginisialisasinya. Hitunglah nilai-nilai pada kolom-kolom setelah kolom *x* dan kolom *y*. Untuk menghitung nilai-nilai tersebut gunakanlah class Math

Script :

```
1.  /*
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3.   * To change this template file, choose Tools | Templates
4.   * and open the template in the editor.
5.   */
6.  package modul7;
```

```
7.
8.  import static java.lang.Math.cos;
9.  import static java.lang.Math.sin;
10. /**
11.  *
12.  * @author Irfan
13.  */
14. public class Sincos {
15.     public static void main(String[] args) {
16.
17.         double xy[][] = {{45, 45}, {135, 135}, {225, 225},{315, 315}};
18.         double a, b, c, d;
19.
20.         System.out.print("");
21.         System.out.println("|X\t|Y\t|Sin(x)*Cos(y)\t|Cos(x)*Sin(y)\t|Sin(x)*Sin(y)\
    t|Cos(x)*Cos(y)");
22.
23.         int i ;
24.         for (i=0; i< xy.length; i++){
25.             for (int h=0; h<2;h++){
26.                 System.out.print(xy[i][h]+"\t");
27.             }
28.             System.out.print(a = Math.sin(xy[i][0]) * cos (xy[i][1]));
29.             System.out.print(b = Math.cos (xy[i][0]) * sin (xy[i][1]));
30.             System.out.print(c = Math.sin(xy[i][0]) * sin (xy[i][1]));
31.             System.out.print(d = Math.cos(xy[i][0]) * cos (xy [i][1]));
32.             System.out.println();
33.         }
34.
35.      /*for (int z=0; z <4 ; z++){
36.          for (int h=0; h<6; h++){
37.
38.          }*/
39.          System.out.println("");
40.      }
41.     }
```

Screenshot :