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Kelas : 2D

Prodi : DIY Informatika

Mata Kuliah : Algoritma dan Struktur Data 2

Tugas 1 : Pengayaan Looping dan Array

A.

1. Nested Loop

Package Nested Looping :

Public class no2 {

Public static void main (string[] args) {

int x, y;

for (x = 0; x <= 4; x++) {

for (y = 0; y < x; y++) {

System.out.print (x);

}

System.out.println ();

}

}

}

→ Deklarasi Package

→ Bagian Class

Method Main

2. Array menggunakan looping

public class arrayPerulangan_3 {

Public static void main (string args []) {

String [] siswa = {"Reinan", "Odena", "Geanno"}; // panjang array 3

for (int i = 0; i < siswa.length; i++) {

System.out.println ("Indeks ke " + i + " = " + mahasiswa[i]);

}

}

}

Method Main

B.

1. Nested Loop

No	Penjelasan	Output
1	$x = 0; 0 \leq 4 \rightarrow T$; lanjut ke looping dalam	
2	$y = 0; 0 < 0 \rightarrow T$; print 0	0
3	$y++$; $y = 0 + 1 = 1; 1 < 0 \rightarrow F$, stop looping dalam	
4	print ()	Enter baris
5	$x++$; $x = 0 + 1 = 1; 1 \leq 4 \rightarrow T$; lanjut ke looping dalam	
6	$y = 0; 0 < 1 \rightarrow T$; print 0	0
7	$y++$; $y = 0 + 1 = 1; 1 < 1 \rightarrow T$; print 1	
8	$y++$; $y = 1 + 1 = 2; 2 < 1 \rightarrow F$, stop looping dalam	
9	print ()	Enter baris
10	$x++$; $x = 1 + 1 = 2; 2 \leq 4 \rightarrow T$; lanjut ke looping dalam	
11	$y = 1; 1 < 2 \rightarrow T$; print 1	0 1
12	$y++$; $y = 1 + 1 = 2; 2 < 2 \rightarrow T$; print 2	0 1 2
13	$y++$; $y = 2 + 1 = 3; 3 < 2 \rightarrow F$, stop looping dalam	
14	print ()	Enter baris
15	$x++$; $x = 2 + 1 = 3; 3 \leq 4 \rightarrow T$; lanjut ke looping dalam	
16	$y = 2; 2 < 3 \rightarrow T$; print 2	0 1 2
17	$y++$; $y = 2 + 1 = 3; 3 < 3 \rightarrow T$; print 3	0 1 2 3
18	$y++$; $y = 3 + 1 = 4; 4 < 3 \rightarrow F$, stop looping dalam	
19	print ()	Enter baris
20	$x++$; $x = 3 + 1 = 4; 4 \leq 4 \rightarrow T$; lanjut ke looping dalam	
21	$y = 3; 3 < 4 \rightarrow T$; print 3	0 1 2 3
22	$y++$; $y = 3 + 1 = 4; 4 < 4 \rightarrow T$; print 4	0 1 2 3 4
23	$y++$; $y = 4 + 1 = 5; 5 < 4 \rightarrow F$, stop looping dalam	
24	print ()	Enter baris

2. Array menggunakan Looping

No	Penjelasan	Output
1	$i = 0; 0 < 3 \rightarrow T$; print siswa [0]	Reinan
2	$i++$; $i = 0 + 1 = 1; 1 < 3 \rightarrow T$; print siswa [1]	Odena
3	$i++$; $i = 1 + 1 = 2; 2 < 3 \rightarrow T$; print siswa [2]	Geanno
4	$i++$; $i = 2 + 1 = 3; 3 < 3 \rightarrow F$; stop looping array	