

Nama : Galih Pamuji

Kelas : 2A

Mata kuliah : Algoritma dan struktur data 2

### a. 1. Nested loop

- Deklarasi package

Package Nested looping

- Import Library

- Bagian class

Public class no2 {

- Method main

Public static void main (String [] args) {

int x, y;

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

System.out.print (x);

}

System.out.println ();

}

}

- Documentation section

### 2. Array menggunakan looping

- Deklarasi package

- Import Library

- Bagian class

Public class array perulangan - 3 {

- Method main

Public static void main (String args []) {

String [] siswa = { "Pelman", "Odera", "Geano" };

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

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

}

- Documentation
- ↳ Panjang array 3

## b. 1. Nested loop

- ↳ Perulangan bersarang/ Nested loop

Code	Output
Package Nested looping :	1
Public class no 2 {	2 2
Public static void main (String [] args) {	3 3 3
int x, y ;	4 4 4 4
for (x=0; x<=4; x++) {	
for (y=0; y<x; y++) {	
System.out.print (x);	
}	
System.out.println ();	
}	
}	

- ↳ Penjelasan jalannya program

NO.	Code	Output
1	x = 0 ; 0 <= 4 → T ; lanjut ke looping dalam	
2	y = 0 ; 0 < 0 → F ; stop	
3	Print ( )	
4	x ++ ; x = 0 + 1 = 1 ; 1 <= 4 → T ; lanjut ke looping dalam	
5	y = 0 ; 0 < 1 → T ; print 1	1
6	y ++ ; y = 0 + 1 = 1 ; 1 < 1 → F ; stop	
7	Print ( )	Enter baris
8	x ++ ; x = 1 + 1 = 2 ; 2 <= 4 → T ; lanjut ke looping dalam	2
9	y = 0 ; 0 < 2 → T ; print 2	2 2
10	y ++ ; y = 0 + 1 = 1 ; 1 < 2 → T ; print 2	2 2
11	y ++ ; y = 1 + 1 = 2 ; 2 < 2 → F ; stop	<del>Enter baris</del>
12	Print ( )	Enter baris
13	x ++ ; x = 2 + 1 = 3 ; 3 <= 4 → T ; lanjut ke looping dalam	3
14	y = 0 ; 0 < 3 → T ; print 3	3 3

15.	y++; y = 0+1 = 1; 1 < 3 → T; print 3	33
16.	y++; y = 1+1 = 2; 2 < 3 → F; print 3	333
17.	y++; y = 2+1 = 3; 3 < 3 → F; stop	
18.	Print ()	Enter baris
19.	x++; x = 3+1 = 4; 4 ≤ 4 → T; lanjut ke looping dalam	
20.	y = 0; 0 < 4 → T; print 4	4
21.	y++; y = 0+1 = 1; 1 < 4 → T; print 4	4 4
22.	y++; y = 1+1 = 2; 2 < 4 → T; print 4	4 4 4
23.	y++; y = 2+1 = 3; 3 < 4 → T; print 4	4 4 4
24.	y++; y = 3+1 = 4; 4 < 4 → F; stop	

## 2. Array menggunakan looping

code	output
Public class array perulangan - 3 { Public static void main (String args []) { String [] siswa { "Reinan", "Adena", "Geona" };  for (int i = 0; i < siswa.length; i++) { System.out.println ("Indeks ke " + i + " " = " + mahasiswa [i] ); } }	Indeks ke 0 Reinan Indeks ke 1 Adena Indeks ke 2 Geona

### •> Penjelasan jalannya program

No	code	
1	i = 0; 0 < 3 → T; Print "Indeks ke " + 0 + " = " + mahasiswa [0]	Indeks ke 0 - Reinan
2	i++; i = 0+1 = 1; → T; Print "Indeks ke " + 1 + " = " + mahasiswa [1]	Indeks ke 1 - Adena
3	i++; i = 1+1 = 2; → T; Print "Indeks ke " + 2 + " = " + mahasiswa [2]	Indeks ke 2 - Geona
4	i++; i = 2+1 = 3; → F; stop.	