Tugas 1

Nama : FF. Niken Pambayun Dyah Setyawati (20090006)
Kelas / Prodi : 2C / DIV TI
Makul : Algoritma dan Struktur Data 2

(a) 1. Nested Loop

- Deklarasi package
  package Nested Looping1;
- Impor Library
  -
- Bagian class
  public class no1 {
- Method main
  public static void main(String[] args) {
- Documentation Section
  -

2. Array menggunakan looping

- Deklarasi package
  -
- Impor library
  -
- Bagian class
  public class arrayPerulangan_3 {
- method main
  public static void main(String args[]) {
- Documentation section
  String[] siswa = {"Reinan", "Odera", "Geanno"};

⑥ 1. Nested Loop

- Perulangan bersarang / Nested Loop

Code	output

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 ( );
}
}
}
	1
	22
	333
	4444

- Penjelasan jalannya Program

No.	code	out put
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	
9.	y=0; 0<2 → T; print 2	2
10.	y++; y=0+1 =1; 1<2 → T; print 2	22
11.	y++; y=1+1 =2; 2<2 → F; stop	
12.	print ( )	Enter baris
13.	x++; x = 2+1 =3; 3<=4 → T; lanjut ke looping dalam	
14.	y=0; 0<3 → T; print 3	3
15.	y++; y=0+1 =1; 1<3 → T; print 3	33
16.	y++; y=1+1 =2; 2<3 → T; 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	44
22.	y++; y = 1+1 = 2; 2<4 → T; print 4	444
23.	y++; y = 2+1 = 3; 3<4 → T; print 4	4444
24.	y++; y = 3+1 = 4; 4<4 → F; stop	

2. Array menggunakan looping

```
Public class arrayPerulangan_3 {
    public static void main(String args[]) {

    String[] siswa = {"Reinan", "Odena", "Geanno"};

        for (int i=0; i < siswa.length; i++) {
        System.out.println("Indeks ke " + i + " = " + mahasiswa[i]);
        }
    }
}
```

output:

```
Indeks ke 0 = Reinan
Indeks ke 1 = Odena
Indeks ke 2 = Geanno
```

- Penjelasan Jalannya Program

NO	Code	output
1.	i=0; 0<3 → T; print "Indeks ke " + 0 + " = " + mahasiswa[0]	Indeks ke 0 = Reinan
2.	i++; i=0+1=1; 1<3 → T; print "Indks ke " + 1 + " =" + mahasiswa [1]	Indeks ke 1 = Odena
3.	i++; i=1+1=2; 2<3 → T; print "Indeks ke " + 2 + " =" + mahasiswa [2]	Indeks ke 2 = Geanno
4.	i++; i=2+1=3; 3<3 → F; stop	