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## 1) A. Nested loop

- Deklarasi package → ada → Package Nested loop ;
- Import library → tidak ada.
- Bagian class → ada → public class no 1 {
- Documentations section → tidak ada.
- Method main → ada → public static void main (String args []) {

## B. Array Menggunakan looping

- Deklarasi package → tidak ada.
- Import library → tidak ada.
- Bagian class → ada → public class array perulangan 3
- Documentations section → ada → // panjang array 3
- Method main → ada → public static void main (String args []) {

## 2) Nested loop

Package Nested loop ;

Public class no 1 {

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 ("") ;

}

}

}



### Pengelasan

Output

$x = 0$  ;  $x < 4$  ? True  $\rightarrow$  lanjut looping dalam  
 $y = 0$  ;  $0 < 0$  ? False  $\rightarrow$  stop looping dalam.

enter baris

Print ()

$x++$  ;  $x = 0 + 1 = 1$  ;  $x = 0 < 4$  ? True  $\rightarrow$  lanjut looping dalam

1

$y = 0$  ;  $0 < 1$  ? True  $\rightarrow$  print x

$y++$  ;  $y = 0 + 1 = 1$  ;  $1 < 1$  ? False  $\rightarrow$  stop looping dalam

Print ()

$x++$  ;  $x = 1 + 1 = 2$  ;  $2 < 4$  ? true  $\rightarrow$  lanjut looping dalam.

$y = 0$  ;  $0 < 2$  ? True  $\rightarrow$  print x

2

$y++$  ;  $y = 0 + 1 = 1$  ;  $1 < 2$  ? True  $\rightarrow$  print x

22

$y++$  ;  $y = 1 + 1 = 2$  ;  $2 < 2$  ? false  $\rightarrow$  stop looping dalam.

Print ()

enter baris

$y++$  ;  $x = 2 + 1 = 3$  ;  $3 < 4$  ? true  $\rightarrow$  lanjut looping dalam.

$y = 0$  ;  $0 < 3$  ? true  $\rightarrow$  print x

3

$y++$  ;  $y = 0 + 1 = 1$  ;  $1 < 3$  ? true  $\rightarrow$  print x

33

$y++$  ;  $y = 1 + 1 = 2$  ;  $2 < 3$  ? true  $\rightarrow$  print x

333

$y++$  ;  $y = 2 + 1 = 3$  ;  $3 < 3$  ? false  $\rightarrow$  stop looping dalam

Print ()

$x++$  ;  $x = 3 + 1 = 4$  ;  $4 < 4$  ? true  $\rightarrow$  lanjut looping dalam.

$y = 0$  ;  $0 < 4$  ? true  $\rightarrow$  print x

4

$y++$  ;  $y = 0 + 1 = 1$  ;  $1 < 4$  ? True  $\rightarrow$  print x

44

$y++$  ;  $y = 1 + 1 = 2$  ;  $2 < 4$  ? True  $\rightarrow$  print x

444

$y++$  ;  $y = 2 + 1 = 3$  ;  $3 < 4$  ? True  $\rightarrow$  print x

4444

$y++$  ;  $y = 3 + 1 = 4$  ;  $4 < 4$  ? false  $\rightarrow$  stop looping dalam.

Print ()

enter baris

~~$x++$~~  ;  $x = 4 + 1 = 5$  ;  $5 < 4$  ? false  $\rightarrow$  stop looping dalam

Print ()

end

Hasil = 1

22

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### 3) Array Menggunakan looping

```
public class array_perulangan - 3 {
```

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

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

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

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

### Penjelasan jalannya program.

no	Penjelasan	Output
1	$i = 0$ ; $0 < 3 \rightarrow T$ ; print Mahasiswa [0]	Reinar
2	$i++$ ; $i = 0 + 1 = 1$ ; $1 < 3 \rightarrow T$ ; print Mahasiswa [1]	adena
3	$i++$ ; $i = 1 + 1 = 2$ ; $2 < 3 \rightarrow T$ ; print Mahasiswa [2]	Geanno
4	$i++$ ; $i = 2 + 1 = 3$ ; $3 < 3 \rightarrow F$ ; perulangan selesai.	