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1.) A. Nested loop

- a. Deklarasi package → ada → package Nested loop ;
- b. Import library → tidak ada
- c. Bagian class → ada → public class no 2 {
- d. Documentation section → tidak ada
- e. Method main → ada → public static void main (string args []) {

B. Array menggunakan looping

- a. Deklarasi package → tidak ada
- b. Import library → tidak ada
- c. Bagian class → ada → public class array perulangan 3.
- d. Documentation section → ada → // panjang array 3
- e. Method main → ada → public static void main (string args []) {

2.) Nested loop

```
package Nested loop;  
public class nomor2 {  
    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("");  
        }  
    }  
}
```

penjelasan

x=0; x<=4 ? True → lanjut looping dalam

y=0; 0<0 ? False → stop looping dalam

print()

x++; x=0+1=1; x=0<=4 ? True → lanjut looping dalam

y=0; 0<1 ? True → print x

y++; y=0+1=1; 1<1 ? False → stop looping dalam

print()

x++; x=1+1=2; 2<=4 ? True → lanjut looping dalam

Output

enter baris

1

y = 0; 0 < 2 ? True → print x	2
y++; y = 0 + 1 = 1; 1 < 2 ? True → print y	2 2
y++; y = 1 + 1 = 2; 2 < 2 ? false → stop looping dalam print()	enter baris
y++; x = 2 + 1 = 3; 3 <= 4 ? True → lanjut looping dalam	
y = 0; 0 < 3 ? True → print x	3
y++; y = 0 + 1 = 1; 1 < 3 ? True → print x	3 3
y++; y = 1 + 1 = 2; 2 < 3 ? True → print x	3 3 3
y++; y = 2 + 1 = 3; 3 < 3 ? False → stop looping dalam print()	
x++; y = 3 + 1 = 4; 4 <= 4 ? True → lanjut looping dalam	
y = 0; 0 < 4 ? True → print x	4
y++; y = 0 + 1 = 1; 1 < 4 ? True → print x	4 4
y++; y = 1 + 1 = 2; 2 < 4 ? True → print x	4 4 4
y++; y = 2 + 1 = 3; 3 < 4 ? True → print x	4 4 4 4
y++; y = 3 + 1 = 4; 4 < 4 ? false → stop looping dalam print()	enter baris
x++; x = 4 + 1 = 5; 5 <= 4 ? false → stop looping dalam print()	
end	
Hasil = 1	
	2 2
	3 3 3
	4 4 4 4

3.) Array menggunakan looping

```
public class array perulangan-3 {
```

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

```
        String [] Siswa = {"Reinan", "adenna", "beanno"}; // panjang array 3
```

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

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

```
        }
```

```
    }
```

```
}
```

Penjelasan → Siswa.length = 3

i = 0 0 < 3 ? True → print "Indeks ke " + i + " = " + Siswa [i]

Output = Indeks ke 0 = Reinan

i++; i = 0 + 1 = 1; 1 < 3 ? True print "Indeks ke " + i + " = " + Siswa [i]

Output : Indeks ke 1 : odenna

$i++$; $i = 1+1 = 2$; $2 < 3$? True print "Indeks ke" + i + " = " + siswa [i]

Output : Indeks ke 2 : Geanno

$i++$; $i = 2+1 = 3$; $3 < 3$? False , stop array looping.