

Tugas 1 - Pengayaan Looping dan Array

1. A. Nested loop

- > Deklarasi package → ada → Package Nested Looping;
- > Import library → tidak ada
- > Bagian class → ada → public class no 2 {
- > Documentation 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 arrayPerulangan_3 {
- > Documentation section → ada → // panjang array 3
- > Method main → ada → public static void main (String args[]) {

2. A. Nested loop

```
package Nested Looping;  
public class no 2 {  
    public static void main (String[] args) {  
        int x, y;  
        for (x = 0; x <= 4; x++) {  
            for (y = 0; y < x; y++) {  
                System.out.print("s");  
            }  
            System.out.println("");  
        }  
    }  
}
```

Penjelasan

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

$y = 0$; $0 < 0$? false → stop looping dalam

print()

enter baris

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

$y++$; $0 < 1$? True → print x

1

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



print()

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

y = 0; 0 < 2 ? True → print x

2

y++; y = 0+1 = 1; 1 < 2 ? True → print x

22

y++; y = 1+1 = 2; 2 < 2 ? True → print x

y++; y = 2+1 = 3; 3 < 2 ? false → stop looping dalam

print()

enter baris

x++; 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

33

y++; y = 1+1 = 2; 2 < 3 ? True → Print x

333

y++; y = 2+1 = 3; 3 < 3 ? false → stop looping dalam

print()

x++; x = 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

44

y++; y = 1+1 = 2; 2 < 4 ? True → print x

444

y++; y = 2+1 = 3; 3 < 4 ? True → print x

4444

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

22

333

4444

B. Array menggunakan looping

```
public class arrayPerulangan_3 {
```

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

```
        String[] siswa = {"Rehan", "Adena", "Geano"}; // panjang array 3
```

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

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

```
        }
```

```
    }
```

```
}
```



Penjelasan \rightarrow siswa.length = 3

$i = 0$ $0 < 3$? true ? print "indeks ke" + i "=" + siswa[i]

Output : Indeks ke 0 = Retnan

$i++$; $i = 0 + 1 = 1$; $1 < 3$? 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 \rightarrow stop array looping