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MK : Algoritma dan struktur data 2

Tugas 1 Looping & Array

1. Nested Loop

- Deklarasi package : package nested_looping;

- import library : tidak ada

- Bagan class : Public class no 2

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

```
    int x, y;
```

```
    for (x = 0; x <= y; x++) {
```

```
        for (y = 0; y < x; y++) {
```

```
            System.out.print (x);
```

```
        }
```

```
}
```

```
y
```

- Method main : public static void main (String [] args) {

```
    int x, y;
```

```
    for (x = 0; x <= y; x++) {
```

```
        for (y = 0; y < x; y++) {
```

```
            System.out.print (x);
```

```
}
```

```
y
```

```
System.out.print ();
```

```
y
```

- Document Section : tidak ada

2/ Array menggunakan looping

- Didarasi package : tidak ada

- Import library : tidak ada

- Bagan class : Public class array, perulangan_3 {

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

```
        String[] siswa = {"Reman", "Dina", "Garmo"};
```

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

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

```
}
```

```
}
```

```
}
```

- Method main : public static void main (String[] args) {

```
String[] siswa = {"Reman", "Dina", "Garmo"};
```

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

```
    System.out.println("indeks ke" + i + "=" +
```

```
        siswa[i]);
```

```
}
```

```
}
```

- Dokumentation section : Apa yang array ?

6/ 1 Nested loop

~~def~~ penjelasan

out put

```

1 x = 0; 0 ≤ 4 → T; // Langut looping dalam
2 y = 0; 0 <= 0 → F; // Stop looping dalam
3 print();
4 x++ ; x = 0+1 = 1; 1 ≤ 4 → T; // Langut looping dalam
5 y = 0; 0 < 1 → T; // print 1
6 y++ ; y = 0+1 = 1; 1 < 1 → F; // Stop looping dalam
7 print();
8 x++ ; x = 1+1 = 2; 2 ≤ 4 → T; // Langut looping dalam
9 y = 0; 0 < 2 → T; // print 2
10 y++ ; y = 0+1 = 1; 1 < 2 → T; // print 2
11 y++ ; y = 1+1 = 2; 2 < 2 → F; // Stop looping dalam
12 print();
13 x++ ; x = 2+1 = 3; 3 ≤ 4 → T; // Langut looping dalam
14 y = 0; 0 < 3 → T; // print 3
15 y++ ; y = 0+1 = 1; 1 < 3 → T; // print 3
16 y++ ; y = 1+1 = 2; 2 < 3 → T; // print 3
17 y++ ; y = 2+1 = 3; 3 < 3 → F; // Stop looping dalam
18 print();
19 x++ ; x = 3+1 = 4; 4 ≤ 4 → T; // Langut looping dalam
20 y = 0; 0 < 4 → T; // print 4
21 y++ ; y = 0+1 = 1; 1 < 4 → T; // print 4
22 y++ ; y = 1+1 = 2; 2 < 4 → T; // print 4
23 y++ ; y = 2+1 = 3; 3 < 4 → T; // print 4
24 y++ ; y = 3+1 = 4; 4 < 4 → F; // Stop looping dalam
25 print();
26 x++ = 4+1 = 5 <= y → F; // program berhenti

```

Enter baris

1

Enter baris

2

22

Enter baris

3

33

333

Enter baris

4

44

444

4444

Enter baris

2 Array

~~def~~ penjelasan

out put

```

1 i = 0; 0 < 3 → T; // print i = 0; indeks [0]
2 i++ ; i = 0+1 = 1; 1 < 3 → T; // print i = 1; indeks [1]
3 i++ ; i = 1+1 = 2; 2 < 3 → T; // print i = 2; indeks [2]
4 i++ ; i = 2+1 = 3; 3 < 3 → F; // Stop looping

```

indeks ke 0 = Reina

indeks ke 1 = Diana

indeks ke 2 = Gracia