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Kelas : 2D

1. A. Nested Loop (Perulangan bersarang)
a) Deklarasi Package : ada -> Package Nested looping ;
b) import library : tidak ada
c) Bagian Class : ada -> Public Class no2 ~~loopNested~~ {
d) Documentation Section -> tidak ada

B. Array menggunakan looping
a) Deklarasi Package : tidak ada
b) import Library : tidak ada
c) Bagian Class : ada -> Public Class ~~ArrayLoop~~ arrayPerulangan_3
d) Documentation Section : ada -> // Panjang array 3
e) Method main -> ada -> Public static void main (String args[]) {

2. Nested loop

```
Package Nestedloop ;
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(" ") ;
    }
}
}
```

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
y = 0 ; 0 < 1 ? True -> Print x
y++ ; y = 0+1 = 1 ; 1 < 1 ? false -> stop looping
Print ()

output
enter baris
1

output

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
Println() — enter baris
x++ ; x = 2+1 = 3 , 3 < 4 → T, maka lanjut looping dalam
y = 0 ; 0 < 3 → T, Print(x) — 3
y++ ; y = 0+1 = 1 ; 1 < 3 → T, Print(x) — 33
y++ ; y = 1+1 = 2 ; 2 < 3 → T, Print(x) — 333
y++ ; y = 2+1 = 3 ; 3 < 3 → F, stop looping
Println() — enter baris
x++ ; x = 3+1 = 4 ; 4 <= 4 → T, lanjut looping dalam
y = 0 ; 0 < 4 → T, Print(x) — 4
y++ ; y = 0+1 = 1 ; 1 < 4 → T, Print(x) — 44
y++ ; y = 1+1 = 2 ; 2 < 4 → T, Print(x) — 444
y++ ; y = 2+1 = 3 ; 3 < 4 → T, Print(x) — 4444
y++ ; y = 3+1 = 4 ; 4 < 4 → F, maka stop looping
Println()
x++ ; x = 4+1 = 5 , 5 <= 4 → F, maka Program selesai

2. Array looping — output

- i = 0 ; 0 < 3 → T
  Println("indeks ke " + i + " = " + siswa[i])(0) — Roman
- i++ ; i = 0+1 = 1 ; 1 < 3 → T
  Println("indeks ke " + i + " = " + siswa[i])(1) — Otong
- i++ ; i = 1+1 = 2 ; 2 < 3 → T
  Println("indeks ke " + i + " = " + siswa[i])(2) — Beaano
- i++ ; i = 2+1 = 3 ; 3 < 3 → F, maka Program selesai