Tugas 1

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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 {
   d. Documentation section → ada → // panjang array {
   e. Method main → ada → public static void main (String[] args) {

2.) Nested loop

```
package Nested loop;
public class nomor 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):
            }
            System.out.println (" "):
        }
    }
}
```

Penjelasan   output
x = 0; x <= y ? True → lanjut looping dalam
y = 0; 0 < 0 ? false → stop looping dalam
print ()   enter baris
x++; x = 0+1 = 1; x = 0 <= y ? True → lanjut looping dalam
y = 0; 0 < y ? True → print x   1
y++; y = 0 +1 = 1; 1 < 1 ? false → stop looping dalam
print ()
x++; x = 1 +1 = 2; 2 <= y ? True → lanjut looping dalam

Y = 0 ; 0 < 2 ? True → print x   2

Y++ ; Y = 0 + 1 = 1; 1 < 2 ? True → print Y   22

Y++ ; Y = 1 + 1 = 2; 2 < 2? False → stop looping dalam

print ()   enter baris

Y++ ; x = 2 + 1 = 3; 3 <= y ? → True → lanjut looping dalam

~~print~~ 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 → ~~pint~~ print x   333

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

print ()   enter baris

X++; Y = 3 + 1 = 4 ; y < = y ? True → lanjut looping dalam   4

Y = 0; 0 < y ? True → print x   4

Y++ ; Y = 0 + 1 = 1; 1 < y ? True → print x   44

Y++ ; Y = 1 + 1 = 2; 2 < y ? true → print x   444

Y++ ; Y = 2 + 1 = 3; 3 < y ? True → print x   4444

Y++; Y = 3 + 1 = 4; y < y ? ~~false~~ false → stop looping dalam

print ()   enter baris

X++ ; x = y + 1 = 5   5 < = y ? false → stop looping dalam

print ()

end

Hasil = 1

      22

      333

      4444

3.) array menggunakan looping

```
public class array perulangan 3 {
    public static void main (String [] args) {
        String [] Siswa = {" Rainan", " Odenna ", " Geanno", }; // panjang array 3
        for (int i = 0; i < siswa. length; i++) {
            System.out.println ("indets ke" + i + " = " + Siswa [i]);
        }
    }
}
```

Panjelasan → Siswa.length = 3

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

output = indeks ke 0 = Rainan

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