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Kelas : 2C

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a. pada masing-masing kode program di bawah ini (Nested Looping dan Array)
Sebutkan mana yang merupakan:

- Deklarasi package
- Import library
- Bagian class
- Method main
- Documentation Section

① Nested Loop

package NestedLooping; ⇒ Deklarasi package → Ada

public class no2 { ⇒ Bagian class → Ada

public static void main (String [] args) { ⇒ method → Ada

int x, y;

for (x=0; x<=4; x++) {

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

System.out.print (x);

}

System.out.println ();

}

}

}

penjelasan: → Import library } Tidak ada.
→ Documentation Section

② Array menggunakan looping

public class arrayPerulangan_3 { → Bagian class

public static void main (String args []) { → method main

Documentation Section ← String [] siswa = { "Reinan", "Adena", "Geanno" }; // panjang array 3
for (int i=0; i<siswa.length; i++) {
System.out.println ("Indeks ke " + i + " = " + mahasiswa [i]);
}

}

}

penjelasan: → Deklarasi package } Tidak ada.
→ Import library

b. Berikan penjelasan mengenai jalannya kode program

① Nested Loop

1. $x = 0$; $x \leq 4$? True

2. $y = 0$; $0 < 0$? False

print ()

3. $x++$; $x = 0 + 1 = 1$; $x = 0 \leq 4$? True

4. $y = 0$; $0 < 1$? True

→ print x → Nilai output = 1

5. $y++$; $y = 0 + 1 = 1$; $1 < 1$? False

print ()

6. $x++$; $x = 1 + 1 = 2$; $2 \leq 4$? True

7. $y = 0$; $0 < 2$? True

→ print x → Nilai output = 2

8. $y++$; $y = 0 + 1 = 1$; $1 < 2$? True

→ print x → Nilai output = 22

9. $y++$; $y = 1 + 1 = 2$; $2 < 2$? False

print ()

10. $x++$; $x = 2 + 1 = 3$; $3 \leq 4$? True

11. $y = 0$; $0 < 3$? True

→ print x → Nilai output = 3

12. $y++$; $y = 0 + 1 = 1$; $1 < 3$? True

→ print x → Nilai output = 33

13. $y++$; $y = 1 + 1 = 2$; $2 < 3$? True

→ print x → Nilai output = 333

14. $y++$; $y = 2 + 1 = 3$; $3 < 3$? False

print ()

15. $x++$; $x = 3 + 1 = 4$; $4 \leq 4$? True

16. $y = 0$; $0 < 4$? True

→ print x → Nilai output = 4

17. $y++$; $y = 0 + 1 = 1$; $1 < 4$? True → print x → Nilai output = 44

18. $y++$; $y = 1 + 1 = 2$; $2 < 4$? True → print x → Nilai output = 444

19. $y++$; $y = 2 + 1 = 3$; $3 < 4$? True → print x → Nilai output = 4444

20. $y++$; $y = 3 + 1 = 4$; $4 < 4$? False

print ()

21. $x++$; $x = 4 + 1 = 5$; $5 < 4$? False

print ()

Hasil dari semua Nilai output =

1

22

333

4444

② Array menggunakan Looping

1. $i = 0$; $0 < 3$? True
println ("Indeks ke " + i + " = " + mahasiswa [i]) \Rightarrow Reinar
2. $i++$; $i = 0 + 1 = 1$; $1 < 3$? True
println ("Indeks ke " + i + " = " + mahasiswa [i]) \Rightarrow Odena
3. $i++$; $i = 1 + 1 = 2$; $2 < 3$? True
println ("Indeks ke " + i + " = " + mahasiswa [i]) \Rightarrow Geanno
4. $i++$; $i = 2 + 1 = 3$; $3 < 3$? false