

LOOPS(Nested loop)

Programs:

1) Write a Java program using nested loops and get the following outputs:

a) A
 A B
 A B C

b) 1
 1 2
 1 2 3

c) 1
 2 2
 3 3 3

d) 4 3 2 1
 4 3 2
 4 3
 4

e) 1
 2 3
 4 5 6
 7 8 9 10

2) Guess the output:

```
public class welcome {  
    public static void main(String[] args) {  
        for (int i = 1; i <= 3; i++) {  
            for (int j = i + 1; j <= 3; j++) {  
                System.out.println(j);  
            }  
        }  
    }  
}
```

Theory:

1. What is nested loops in Java?
2. What are the types of nested loops?