

Java Practice Questions — Pattern Printing using Loops

NOTE : Do not Hard Code input.

Question 1: Print Square Pattern (Easy)

Write a Java program to print the following pattern:

```
* * * *
* * * *
* * * *
* * * *
```

Condition:

- Use loops only
 - Number of rows = 4
 - Number of columns = 4
-

Question 2: Print Perpendicular Line (Easy)

Write a Java program to print:

```
* * * * *
*
*
*
*
```

Condition:

- Number of stars = 5

- Use loop
-

Question 3: Print Right Triangle Pattern (Easy)

Write a Java program to print:

```
*  
* *  
* * *  
* * * *  
* * * * *
```

Condition:

- Rows = 5
-

Question 4: Print Inverted Right Triangle (Easy–Medium)

Write a Java program to print:

```
* * * * *  
* * * *  
* * *  
* *  
*
```

Condition:

- Rows = 5
-

Question 5: Print Number Square Pattern (Easy–Medium)

Write a Java program to print:

```
1 1 1 1
```

```
2 2 2 2  
3 3 3 3  
4 4 4 4
```

Question 6: Print Increasing Number Triangle (Medium)

Write a Java program to print:

```
1  
1 2  
1 2 3  
1 2 3 4  
1 2 3 4 5
```

Question 7: Print Continuous Number Triangle (Medium)

Write a Java program to print:

```
1  
2 3  
4 5 6  
7 8 9 10
```

Hint: Numbers should continue, not restart from 1.

Question 8: Print Pyramid Pattern (Medium)

Write a Java program to print:

```
*  
* *  
* * *  
* * * *  
* * * * *
```

Condition:

- Rows = 5

- Maintain proper spacing
-

Question 9: Print Inverted Pyramid (Medium–Hard)

Write a Java program to print:

```
* * * * *
* * * *
* * *
* *
*
```

Question 10: Print Half Pyramid with Same Numbers (Medium–Hard)

Write a Java program to print:

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

Question 11: Print Binary Pattern (Hard)

Write a Java program to print:

```
1
0 1
1 0 1
0 1 0 1
1 0 1 0 1
```

Question 12: Print Diamond Pattern (Hard)

Write a Java program to print:

```
*
```

```
**
```

```
***
```

```
****
```

```
*****
```

```
***
```

```
**
```

```
*
```

Bonus Challenge Question (Very Important for Interviews)

Question 13: Print Floyd's Triangle

```
1
```

```
2 3
```

```
4 5 6
```

```
7 8 9 10
```

```
11 12 13 14 15
```

Bonus Challenge Question (Very Hard)

Question 14: Print Pascal's Triangle

```
1
```

```
1 1
```

```
1 2 1
```

```
1 3 3 1
```

```
1 4 6 4 1
```
