

# Rajalakshmi Engineering College

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q6

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Maya, a student in an arts and crafts class, wants to create a pattern using stars (\*) in a specific format. She plans to use a program to help her construct the pattern.

Write a program that takes an integer as input and constructs the following pattern using nested for loops.

Input: 5

Output:

\*  
\* \*

\* \* \*  
\* \* \* \*  
\* \* \* \* \*  
  
\* \* \* \*  
  
\* \* \*  
  
\* \*  
  
\*

### ***Input Format***

The input consists of a number (integer) representing the number of rows.

### ***Output Format***

The output displays the required pattern.

Refer to the sample output for the formatting specifications.

### ***Sample Test Case***

Input: 5

Output: \*

\* \*  
\* \* \*  
\* \* \* \*  
\* \* \* \* \*  
\* \* \* \*  
\* \* \*  
\* \* \*  
\* \*  
\*  
\*

### ***Answer***

```
import java.util.Scanner;  
class StarPattern
```

```
{
```

```
public static void main(String[] args)
```

```
{
```

```
    Scanner sc = new Scanner(System.in);  
    int rows = sc.nextInt();
```

```
    // Upper half  
    for (int i = 1; i <= rows; i++)
```

```
    {
```

```
        for (int j = 1; j <= i; j++)
```

```
        {
```

```
            System.out.print("* ");
```

```
        }
```

```
        System.out.println();
```

```
    }
```

```
    // Lower half  
    for (int i = rows - 1; i >= 1; i--)
```

```
    {
```

```
        for (int j = 1; j <= i; j++)
```

```
        {
```

```
            System.out.print("* ");
```

```
}  
    System.out.println();
```

```
}
```

```
}
```

```
}
```

**Status :** Correct

**Marks :** 10/10