

# Rajalakshmi Engineering College

Name: talapaneni sujitha  
Email: 240701551@rajalakshmi.edu.in  
Roll no: 2116240701551  
Phone: 9445179891  
Branch: REC  
Department: CSE - Section 9  
Batch: 2028  
Degree: B.E - CSE

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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***

```
// You are using Java
import java.util.Scanner;
```

```
public class Main {
    public static void main(String[] args) {
```

```
Scanner sc = new Scanner(System.in);
int rows = sc.nextInt();
for (int i = 1; i <= rows; i++) {
    for (int j = 1; j <= i; j++) {
        System.out.print("* ");
    }
    System.out.println();
}
for (int i = rows - 1; i >= 1; i--) {
    for (int j = 1; j <= i; j++) {
        System.out.print("* ");
    }
    System.out.println();
}
sc.close();
}
```

**Status :** Correct

**Marks :** 10/10