

# Rajalakshmi Engineering College

Name: Ramya J.T  
Email: 241801223@rajalakshmi.edu.in  
Roll no: 241801223  
Phone: 8946015292  
Branch: REC  
Department: AI & DS - Section 5  
Batch: 2028  
Degree: B.E - AI & DS

Scan to verify results



## 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;  
class Pattern{  
    public static void main(String[] args){  
        int row;
```

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

**Status :** Correct

**Marks :** 10/10