

# Rajalakshmi Engineering College

Name: Prathiksha S

Email: 241801210@rajalakshmi.edu.in

Roll no: 241801210

Phone: 9003117693

Branch: REC

Department: AI & DS - Section 5

Batch: 2028

Degree: B.E - AI & DS

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

```
Scanner s=new Scanner(System.in);
rows=s.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();
}
```

**Status : Correct**

**Marks : 10/10**