

# Rajalakshmi Engineering College

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Branch: REC

Department: CSE - Section 10

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***

```
import java.util.Scanner;  
class main{  
    public static void main(String[] args){  
        Scanner sc = new Scanner(System.in);  
        int n=sc.nextInt();
```

```
for(int i=0;i<n;i++){
    for(int j=0;j<i;j++){
        System.out.print("*");
    }
    System.out.println("");
}
for(int i=n;i>0;i--){
    for(int j=i;j>0;j--){
        System.out.print("*");
    }
    System.out.println("");
}
```

**Status : Correct**

**Marks : 10/10**