

# Rajalakshmi Engineering College

Name: Srithan Saravanan

Email: 240701532@rajalakshmi.edu.in

Roll no: 240701532

Phone: 7200352047

Branch: REC

Department: CSE - Section 7

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.*;  
  
class main{  
    public static void main(String[] args){  
        Scanner sc = new Scanner(System.in);  
    }  
}
```

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

**Status :** Correct

**Marks :** 10/10