

# Rajalakshmi Engineering College

Name: Alvin .B

Email: 240701034@rajalakshmi.edu.in

Roll no: 240701034

Phone: 9677000577

Branch: REC

Department: CSE - Section 10

Batch: 2028

Degree: B.E - CSE

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 main{  
    public static void main(String args[]){  
        int a;
```

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

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

**Status :** Correct

**Marks :** 10/10