

# Rajalakshmi Engineering College

Name: SIVASURIYAN .

Email: 240701518@rajalakshmi.edu.in

Roll no:

Phone: 7010603376

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***

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

```
for(int i = 0;j<a;i++)
{
    for(int j = 0;j < i + 1;j++)
    {
        System.out.print("* ");
    }
    System.out.print("\n");
}
for(int i =0 ;i<a - 1 ;i++)
{
    for(int j = a - 2 - i;j>=0;j--)
    {
        System.out.print("* ");
    }
    System.out.print("\n");
}
```

**Status :** Correct

**Marks :** 10/10