

# Rajalakshmi Engineering College

Name: SAIPRASHANTH v  
Email: 240701457@rajalakshmi.edu.in  
Roll no: 240701457  
Phone: 7806969910  
Branch: REC  
Department: CSE - Section 5  
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.io.*;
import java.util.*;
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.printf("* ");
        }
        System.out.printf("\n");
    }

    for(int i=n;i>0;i--)
    {
        for(int j=i;j>0;j--)
        {
            System.out.printf("* ");
        }
        System.out.printf("\n");
    }
}
```

**Status :** Correct

**Marks : 10/10**