

# Rajalakshmi Engineering College

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Department: CSE - Section 5

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: \*

\*\*

\*\*\*

\*\*\*\*

\*\*\*\*\*

\*\*\*\*

\*\*\*

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\*

## Answer

```
// You are using Java
import java.util.Scanner;
public class Main
{
    public static void main(String args[])
}
```

```
{  
Scanner sc = new Scanner(System.in);  
int a = sc.nextInt();  
for(int i=0;i<a;i++)  
{  
    for(int j=0;j<=i;j++)  
    {  
        System.out.printf("* ");  
    }  
    System.out.printf("\n");  
}  
for(int i = a;i>1;i--)  
{  
    for(int j=i;j>1;j--)  
    {  
        System.out.printf("* ");  
    }  
    System.out.printf("\n");  
}  
sc.close();  
}  
}
```

**Status :** Correct

**Marks :** 10/10