

# Rajalakshmi Engineering College

Name: Venkat krishna.A

Email: 241801308@rajalakshmi.edu.in

Roll no: 241801308

Phone: 9361019427

Branch: REC

Department: AI & DS - Section 5

Batch: 2028

Degree: B.E - AI & DS

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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 scanner=new Scanner(System.in);
```

```
int n = scanner.nextInt();
for(int i=1;i<=n;i++)
{
    for(int j=1;j<=i;j++)
    {
        System.out.print("* ");
    }
    System.out.println("");
}

for(int i=n-2;i>=0;i--)
{
    for(int j=i;j>=0;j--)
    {
        System.out.print("* ");
    }
    System.out.println("");
}
}
```

**Status :** Correct

**Marks :** 10/10