

Rajalakshmi Engineering College

Name: Aswin Siddharth A
Email: 240701064@rajalakshmi.edu.in
Roll no: 240701064
Phone: 9489304331
Branch: REC
Department: CSE - Section 9
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: *
**

**
*

Answer

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

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

Status : Correct

Marks : 10/10