

Rajalakshmi Engineering College

Name: Subhalakshmi M

Email: 240701539@rajalakshmi.edu.in

Roll no: 240701539

Phone: 6379032776

Branch: REC

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: *

**

**

*

Answer

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

```
int n = sc.nextInt();

for (int row = 1; row <= n; row++) {
    for (int col = 1; col <= row; col++) {
        System.out.print("* ");
    }
    System.out.println();
}

for (int row = n - 1; row >= 1; row--) {
    for (int col = 1; col <= row; col++) {
        System.out.print("* ");
    }
    System.out.println();
}

sc.close();
}
```

Status : Correct

Marks : 10/10