

Rajalakshmi Engineering College

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Batch: 2028

Degree: B.E - CSE (CS)

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

Status : Correct

Marks : 10/10