

Rajalakshmi Engineering College

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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.*;  
public class Main{  
    public static void main(String[] args){  
        Scanner ip=new Scanner(System.in);  
        int n=ip.nextInt();
```

```
for(int i=1;i<=n;i++){
    for(int j=0;j<i;j++){
        System.out.printf("* ");
    }
    System.out.printf("\n");
}
for(int i=n-1;i>0;i--){
    for(int j=i;j>0;j--){
        System.out.printf("* ");
    }
    System.out.printf("\n");
}
ip.close();
}
```

Status : Correct

Marks : 10/10