

Rajalakshmi Engineering College

Name: SANDEEP K
Email: 240701464@rajalakshmi.edu.in
Roll no: 240701464
Phone: 8072048996
Branch: REC
Department: CSE - Section 8
Batch: 2028
Degree: B.E - CSE

Scan to verify results



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