Rajalakshmi Engineering College

Name: Sherwin G M
Email: 240701496@rajalakshmi.edu.in
Roll no: 240701496
Phone: 7708605966
Branch: REC
Department: CSE - Section 10
Batch: 2028
Degree: B.E - CSE

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

```java
// You are using Java
import java.util.Scanner;
class m
{
    public static void main(String args[])
```

```java
{
    Scanner a = new Scanner(System.in);
    int n = a.nextInt();
    for(int i=1;i<=n;i++)
    {
        for(int j=1;j<=i;j++)
        {
            System.out.printf("* ");
        }
        System.out.printf("\n");
    }
    for(int k=n-1;k>0;k--)
    {
        for(int l=k;l>0;l--)
        {
            System.out.printf("* ");
        }
        System.out.printf("\n");
    }
}
}
```

Status : Correct   **Marks : 10/10**