Rajalakshmi Engineering College

Name: HARSHAN M
Email: 241801089@rajalakshmi.edu.in
Roll no:
Phone: 9994423223
Branch: REC
Department: AI & DS - Section 1
Batch: 2028
Degree: B.E - AI & DS

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;
public class Main
{
    public static void main(String[] args)
```

```java
{
    Scanner sc=new Scanner(System.in);
    int a=sc.nextInt();
    for(int i=1;i<=a;i++)
    {
        for(int j=1;j<=i;j++)
        {
            System.out.print(" *");
        }
        System.out.print("\n");
    }
    for(int m=a-1;m!=0;m--)
    {
        for(int n=1;n<=m;n++)
        {
            System.out.print(" *");
        }
        System.out.print("\n");
    }
}
}
```

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