Rajalakshmi Engineering College

Name: Jothika k
Email: 241801110@rajalakshmi.edu.in
Roll no:
Phone: 8015818072
Branch: REC
Department: AI & DS - Section 5
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

```
import java.util.Scanner;
class Pattern{
    public static void main(String[] args){
        int a,i;
        Scanner sc= new Scanner(System.in);
```

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

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