Rajalakshmi Engineering College

Name: Neha R N
Email: 240701354@rajalakshmi.edu.in
Roll no: 240701354
Phone: 9080137196
Branch: REC
Department: CSE - Section 7
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.*;

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

```java
Scanner sc = new Scanner(System.in);
int n = sc.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>=1 ; i--) {
    for(int j = 1; j<=i; j++) {
        System.out.print("* ");
    }
    System.out.println();
}
sc.close();
    }
}
```

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