Rajalakshmi Engineering College

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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 Main
{
```

```java
public static void main(String[] args)
{
    Scanner scan = new Scanner(System.in);

    int n = scan.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( );
    }
}
}
```

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