

Rajalakshmi Engineering College

Name: Dharshan UJ

Email: 240701811@rajalakshmi.edu.in

Roll no: 240701811

Phone: 9025494910

Branch: REC

Department: CSE - Section 6

Batch: 2028

Degree: B.E - CSE

Scan to verify results



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.*;  
class patterns
```

```
{
```

```
public static void main(String[] args)
{
    Scanner sc = new Scanner(System.in);
    int rows = sc.nextInt();
    for (int i = 1; i <= rows; i++)
    {
        for (int j = 1; j <= i; j++)
            System.out.print("* ");
        System.out.println();
    }
    for (int i = rows - 1; i >= 1; i--)
    {
        for (int j = 1; j <= i; j++)
            System.out.print("* ");
        System.out.println();
    }
}
```

}

}

}

Status : Correct

Marks : 10/10