

Rajalakshmi Engineering College

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Batch: 2028

Degree: B.E - CSE

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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

```
import java.util.Scanner;  
class StarPattern
```

```
{
```

```
public static void main(String[] args)
{
    Scanner sc = new Scanner(System.in);
    int rows = sc.nextInt();

    // Upper half
    for (int i = 1; i <= rows; i++)
    {
        for (int j = 1; j <= i; j++)
        {
            System.out.print("* ");
        }
        System.out.println();
    }

    // Lower half
    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