

Rajalakshmi Engineering College

Name: DHARINI BALA MURUGAN .
Email: 241501044@rajalakshmi.edu.in
Roll no: 241501044
Phone: 8754111345
Branch: REC
Department: AI & ML - Section 4
Batch: 2028
Degree: B.E - AI & ML

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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

```
// You are using Java
import java.util.Scanner;
```

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

```
Scanner sc = new Scanner(System.in);
int rows = sc.nextInt();

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

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

sc.close();
}
```

Status : Correct

Marks : 10/10