

Rajalakshmi Engineering College

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Branch: REC

Department: AI & ML - Section 1

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.*;
class Main
{
    public static void main(String args[])
}
```

```
{  
    Scanner in= new Scanner (System.in);  
    int a = in.nextInt();  
    for(int i=1;i<=a;i++)  
    {  
        for(int j=1;j<=i;j++)  
        {  
            System.out.printf("* ");  
        }  
        System.out.printf("\n");  
    }  
  
    for(int m=a-1;m>=1;m--)  
    {  
        for(int n=1;n<=m;n++)  
        {  
            System.out.printf("* ");  
        }  
    }  
}
```

Status : Correct

Marks : 10/10