

Rajalakshmi Engineering College

Name: VISHVA RAGAVAN P

Email: 241501249@rajalakshmi.edu.in

Roll no: 241501249

Phone: 6381117385

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

```
int n=s.nextInt();

for(int i=1;i<=n;i++){
    int t=i;
    while(t>0){
        t--;
        System.out.printf("* ");
    }
    System.out.println(" ");
}

for(int i=n-1;i>0;i--){
    int t=i;
    while(t>0){
        t--;
        System.out.printf("* ");
    }
}
```

Status : Correct

Marks : 10/10