

# Rajalakshmi Engineering College

Name: DINESH K V  
Email: 241501048@rajalakshmi.edu.in  
Roll no: 241501048  
Phone: 7708632555  
Branch: REC  
Department: AI & ML - Section 1  
Batch: 2028  
Degree: B.E - AI & ML

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***

```
// You are using Java  
import java.util.*;  
public class Main{  
    public static void main(String[] args){  
        Scanner s = new Scanner(System.in);
```

```
int N=s.nextInt();
for(int i=1;i<=N;i++){
    for(int j=1;j<=i;j++){
        System.out.print("*");
        if(j!=i){
            System.out.print(" ");
        }
    }
    System.out.println();
}
for(int i=N-1;i>=1;i--){
    for(int j=1;j<=i;j++){
        System.out.print("*");
        if(j!=i){
            System.out.print(" ");
        }
    }
    System.out.println();
}
}
```

**Status :** Correct

**Marks :** 10/10