

# Rajalakshmi Engineering College

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

```
for(int i=1;i<a+1;i++){  
    for(int j=0;j<i;j++){  
        System.out.printf("* ");  
    }  
    System.out.printf("\n");  
}  
for(int h=a-1;h>0;h--){  
    for(int k=0;k<h;k++){  
        System.out.printf("* ");  
    }  
    System.out.printf("\n");  
}  
sc.close();  
}
```

**Status :** Correct

**Marks : 10/10**