

Rajalakshmi Engineering College

Name: Dineshraj R
Email: 241501049@rajalakshmi.edu.in
Roll no: 241501049
Phone: 9363708090
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

```
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