

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

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

```
int n=in.nextInt();
for(int i=1;i<=n;i++){
    for(int j=1;j<=i;j++){
        System.out.print("* ");
    }
    System.out.println();
}
// Lower part of the pattern
for (int i = n - 1; i >= 1; i--) {
    for (int j = 1; j <= i; j++) {
        System.out.print("* ");
    }
    System.out.println(); // Move to next line
}

}
```

Status : Correct

Marks : 10/10