

# Rajalakshmi Engineering College

Name: Sakthi R

Email: 241001213@rajalakshmi.edu.in

Roll no: 241001213

Phone: 9500325142

Branch: REC

Department: IT - Section 2

Batch: 2028

Degree: B.E - IT

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q7

Attempt : 1

Total Mark : 10

Marks Obtained : 10

#### **Section 1 : Coding**

##### **1. Problem Statement**

You are taking part in a coding challenge where your task is to design a program that conjures a mesmerizing numerical pyramid pattern. The enchanting pattern is fashioned using a for loop and is customized based on user input.

Participants are prompted to unveil the pyramid's magic by specifying its height - essentially dictating the number of rows in this spellbinding creation.

Write a program that employs to weave this captivating numerical pyramid as shown below.

Example

Input:

4

Output:

### ***Input Format***

The input consists of a positive integer n representing the number of rows in the pattern.

### ***Output Format***

The output prints the required pyramid pattern, as shown in the sample output.

Refer to the sample output for the formatting specifications.

### ***Sample Test Case***

Input: 4

Output: 1

123

12345

1234567

### ***Answer***

```
// You are using Java
import java.io.*;
import java.util.Scanner;
public 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++){
            space(n-i);
            for(int j=1;j<=(i*2)-1;j++){
                System.out.print(j);
            }
            System.out.println();
        }
    }
}
```

```
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}
static void space(int m){
    while(m>0){
        System.out.print(" ");
        m-=1;
    }
}
```

**Status :** Correct

**Marks :** 10/10