

# Rajalakshmi Engineering College

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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.util.Scanner;
class Main
{
    public static void main(String[] args)
    {
        int n,m;
        Scanner sc=new Scanner(System.in);
        n=sc.nextInt();
        m=n+(n-1);
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<=(m-i-1);j++)
            {
```

```
        System.out.print(" ");
    }
    for(int j=0;j<=i;j++)
    {
        System.out.print(j+1);
    }
    for(int j=0;j<i;j++)
    {
        System.out.print(i+2+j);
    }
    //for(int j=)
    /*for(int j=m-i-1;j>=0;j--)
    {
        System.out.print(" ");
    }*/
    System.out.println();
}
}
}
```

**Status :** Correct

**Marks :** 10/10