

# Rajalakshmi Engineering College

Name: Gokulan V  
Email: 240701151@rajalakshmi.edu.in  
Roll no: 240701151  
Phone: 9361185506  
Branch: REC  
Department: CSE - Section 9  
Batch: 2028  
Degree: B.E - CSE

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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***

```
import java.util.Scanner;
class Main{
    public static void main(String[] args){
        Scanner scan=new Scanner(System.in);
        int a=scan.nextInt();
        int h=a,m=1;
        for(int i=1;i<=a;i++){
            int p=1;
            for(int k=h-1;k>=0;k--){
                System.out.print(" ");
            }
            h--;
            for(int j=1;j<=m;j++){
                System.out.print(p);
```

```
        p++;  
    }  
    System.out.println("");  
    m+=2;  
}  
}  
}
```

**Status :** Correct

**Marks :** 10/10