

# Rajalakshmi Engineering College

Name: DHARINI BALA MURUGAN .  
Email: 241501044@rajalakshmi.edu.in  
Roll no: 241501044  
Phone: 8754111345  
Branch: REC  
Department: AI & ML - Section 4  
Batch: 2028  
Degree: B.E - AI & ML

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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 sc = new Scanner(System.in);
        int n = sc.nextInt();

        for (int i = 1; i <= n; i++) {
            // Print leading spaces
            for (int s = 1; s <= n - i; s++) {
                System.out.print(" ");
            }
            // Print numbers
            for (int num = 1; num <= (2 * i - 1); num++) {
```

```
        System.out.print(num);  
    }  
    System.out.println();  
}  
  
    sc.close();  
}
```

**Status :** Correct

**Marks :** 10/10