

# Rajalakshmi Engineering College

Name: Ishwariya R  
Email: 241801097@rajalakshmi.edu.in  
Roll no: 241801097  
Phone: 9884883678  
Branch: REC  
Department: AI & DS - Section 5  
Batch: 2028  
Degree: B.E - AI & DS

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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 NumberPyramid {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int n = scanner.nextInt();

        for (int i = 1; i <= n; i++) {
            for (int space = 1; space <= n - i; space++) {
                System.out.print(" ");
            }
            for (int num = 1; num <= (2 * i - 1); num++) {
                System.out.print(num);
            }
        }
    }
}
```

```
}  
    System.out.println();  
}  
    scanner.close();  
}
```

**Status :** Correct

**Marks :** 10/10