

# 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***

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

```
        {  
            System.out.print(k);  
        }  
        System.out.print("\n");  
        b = b + 1;  
        c = c + 2;  
    }  
}  
}
```

**Status :** Correct

**Marks :** 10/10