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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 NumericalPyramid {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        // Read number of rows
        int n = scanner.nextInt();

        // Loop to build the pyramid
        for (int i = 1; i <= n; i++) {
            // Print leading spaces
            for (int j = 1; j <= n - i; j++) {
                System.out.print(" ");
```

```
        }

        // Print numbers
        for (int j = 1; j <= (2 * i - 1); j++) {
            System.out.print(j);
        }

        // Move to next line
        System.out.println();
    }

    scanner.close();
  }
}
```

Status : Correct ***Marks : 10/10***