HATFD1035

Print Pascal's Triangle

Write a program to generate and print the first n rows of Pascal's triangle without using built-in math or

array functions. For n = 5, the output should be:

```
1
 11
121
1331
14641
PROGRAM CODE:
JAVA
import java.util.*;
public class PascalsTriangle {
  public static void printPascalsTriangle(int numberOfRows) {
    for (int currentRow = 0; currentRow < numberOfRows; currentRow++) {</pre>
      for (int space = 0; space < numberOfRows - currentRow - 1; space++) {
        System.out.print(" ");
      }
      int value = 1;
      for (int column = 0; column <= currentRow; column++) {
        System.out.print(value + " ");
        value = value * (currentRow - column) / (column + 1);
      }
      System.out.println();
    }
  }
  public static void main(String[] args) {
Scanner sc=new Scanner(System.in);
    int numberOfRows = sc.nextInt();
    printPascalsTriangle(numberOfRows);
  }}
```

SAMPLE INPUTS:
Input: 3
Output:
1
11
121
SAMPLE INPUTS:
Input: 4
Output:
1
11
121
1331
SAMPLE INPUTS:
Input: 5
Output:
1
11
121
1331
14641