**Pascal's Triangle**

Given an integer numRows, return the first numRows of **Pascal's triangle**.

In **Pascal's triangle**, each number is the sum of the two numbers directly above it as shown:



**Example 1:**

**Input:** numRows = 5

**Output:** [[1],[1,1],[1,2,1],[1,3,3,1],[1,4,6,4,1]]

**Example 2:**

**Input:** numRows = 1

**Output:** [[1]]

Solution

class Solution {

    public List<List<Integer>> generate(int numRows) {

        List<List<Integer>> rowArray=new ArrayList<>();

        for(int i=0;i<numRows;i++){

            List<Integer> colArray = new ArrayList<>();

            for(int j=0;j<=i;j++)

            {

                if(j==0||j==i){

                    //every coluum's first and last element are filled with 1'

                    colArray.add(1);

                }

                else{

                    //Addition of previous Row's first two elements them second two element, and so on

                    colArray.add(j,rowArray.get(i-1).get(j-1)+rowArray.get(i-1).get(j));

                }

            }

            rowArray.add(colArray);

        }

        return rowArray;

    }

}