Number Pattern

Problem Description: You are given with an input number N, then you have to print the given pattern corresponding to that number N.
For example if N=4
Pattern output : 1
23
345
4567

How to approach?

1. Take N as input from the user.
2. Figure out the number of rows, (which is N here) and run a loop for that.
3. Now, figure out the number of columns of ith row (which is the row number here i.e. i) and run a loop for that within this.
4. Now, figure out "What to print?" in a particular row, column number. It can depend on the column number, row number and N which is (row number+column number -1) here.

Pseudo code for the given problem:

```
input=N
i=1
While i is less than equal to N:
        j=1
        While j is less than equal to i:
                print(i+j-1)
                Increment j by 1
        Increment i by 1
        Add a new line here
```

- ❏ Let us dry run the Code for N=4
  - i=1(<=4)
    - ➔ j=1(<=1), so print=1+1-1=1
    - ➔ j=2 (>1), move out of the inner loop with a new line
  - i=2(<=4)

- ➔ j=1 (<=2), so print=2+1-1=2
- ➔ j=2 (<=2) , so print=2+2-1=3
- ➔ j=3(>2), move out of the inner loop with a new line

- i=3(<=4)
  - ➔ j=1(<=3), so print=3+1-1=3
  - ➔ j=2(<=3), so print=3+2-1=4
  - ➔ j=3(<=3), so print=3+3-1=5
  - ➔ j=4(>3), move out of the inner loop with a new line

- i=4(<=4)
  - ➔ j=1(<=4), so print=4+1-1=4
  - ➔ j=2(<=4), so print=4+2-1=5
  - ➔ j=3(<=4), so print=4+3-1=6
  - ➔ j=4(<=4), so print=4+4-1=7
  - ➔ j=5(>4), move out of the inner loop with a new line

- i=5(>4), move out of the loop

So , final output:
1
2 3
3 4 5
4 5 6 7