Star Pattern

Problem Description: You are given with an input number N, then you have to print the given star pattern corresponding to that number N.

For example if N=4

Pattern output :
```
   *
  ***
 *****
*******
```

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 in ith row (i.e. 2*(i)-1)and run a loop for that within this. Here, first you need to run a loop to print the spaces too.
4. Now, figure out "What to print?" in a particular row, column number. Here we have to print "*".

Pseudo code for the given problem:

input=N

i=1

While i is less than equal to N:

> *spaces=1*
>
> *While spaces is less than (n-i):*
> > *print(' ')*
> > *Increment spaces by 1*
>
> *j=1*
> *While j is less than equal to 2*i-1:*
> > *print("*")*
> > *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)

➜ 4-1=3 spaces are getting printed first.

➜ j=1(<=2*1-1), so print "*"

➜ j=2 (>2*1-1), move out of the inner loop with a new line

- i=2(<=4)
  - ➜ 4-2=2 spaces are getting printed first.
  - ➜ j=1 (<=2*2-1), so print "*"
  - ➜ j=2 (<=2*2-1), so print "*"
  - ➜ j=3 (<=2*2-1), so print "*"
  - ➜ j=4(>2*2-1), move out of the inner loop with a new line

- i=3(<=4)
  - ➜ 4-3=1 space is getting printed first.
  - ➜ j=1(<=2*3-1), so print "*"
  - ➜ j=2(<=2*3-1), so print "*"
  - ➜ j=3(<=2*3-1), so print "*"
  - ➜ j=4(<=2*3-1), so print "*"
  - ➜ j=5(<=2*3-1), so print "*"
  - ➜ j=6(>2*3-1), move out of the inner loop with a new line

- i=4(<=4)
  - ➜ 4-4=0 no space is getting printed.
  - ➜ j=1(<=2*4-1), so print "*"
  - ➜ j=2(<=2*4-1), so print "*"
  - ➜ j=3(<=2*4-1), so print "*"
  - ➜ j=4(<=2*4-1), so print "*"
  - ➜ j=5(<=2*4-1), so print "*"
  - ➜ j=6(<=2*4-1), so print "*"
  - ➜ j=7(<=2*4-1), so print "*"
  - ➜ j=8(>2*4-1), move out of the inner loop with a new line

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

So , final output:
```
   *
  ***
 *****
*******
```