Recap:

- · First Python class.
 - · Install python (skipped)
 - . Write our first python program
 - · Check if a given number x is a prime number

Main idea: use the definition of prime number

· A number is prime if it has no other factor than I and itself

Pseudo Code (fake code that illustrate the idea)

or any other integer $\chi \leftarrow 6$

i < 2 start checking from 2

check it i is a factor of x while $i \leq x-1$ do

if (the remainder of $x \div i$) = 0 do

print ("x is not a prime") if so, x is not prime

quit the program immediately no need to continue

end if $i \leftarrow i + 1$ check the next, lutil i = x - 1

endwhile

print ("x is a prime") if pass all checks without quitting, x does not have any factors other than
1 and itself (we have checked from 2 to x-1) then x must be a prime

Today's Objective

Revist the Python code

- · install python onto local machine
- · re-program the check python code.

Learn some mathematics.