Prime numbers pseudocode

Goal: Check whether a number is a prime number.

* Ask the user for an input
* Compile a list of primes to the square root of that input:
  + Start at 2
  + Keep iterating over each number, checking if it is divisible by any numbers already in the list
    - If it is not divisible by any of them, append it to the list
* Once you have the list of primes, check whether the input is divisible by any member of the list.
  + If it is divisible, then break. The number is not prime.
  + If it is not divisible , break. The number is prime.
* Tell the user