List Exercises 2

Write the code for these problems in a file called list_ex2.py inside of ~/intro_class.

1. Create a list called primes and fill it with the first two prime numbers. Hint: a prime number is a positive number that is not divisible by anything except 1 and itself.
2. Try to add the next prime number to the primes list by typing `primes + 5`. What happens?
    a. If you got an error, what does this error mean?
    b. Fix the error (if you got one), so that 5 will be added to the list.
3. Use the statement `primes.append(7,11)` to add the next two prime numbers to the primes list. What happens?
    a. If you got an error, what does this error mean?
4. Use the statement `primes.append([7,11])` to add the next two prime numbers to the primes list. What happens? (Hint: you may have to print primes to see)
    a. Use the `.pop()` method on primes to remove this erroneous entry.
    b. Fix the above statement and the `.append()` method twice to properly add 7 and 11 to the primes list.
5. Use the statement `primes.extend(13,17)` to add the next two prime numbers to the primes list. What happens?
    a. If you got an error, what does this error mean?
6. Use the statement `primes.extend(13,17)` to add the next two prime numbers to the primes list. What happens?
    a. Fix the above statement to properly use the `.extend()` method to add 13 and 17 to the list.

*** A **prime number** is a natural number greater than 1 that has no positive divisors other than 1 and itself.