CS100M: Lab Exercises for Sep. 20-21

1. Complete the following code so that all the numbers between $F_n$ and $F_{n+1}$ are printed. As a reminder, $F_1 = 1$, $F_2 = 1$, and $F_k = F_{k-1} + F_{k-2}$ for $k > 2$. For example, if $n = 6$, then the numbers between $F_6 (= 8)$ and $F_7 (= 13)$ are 9, 10, 11 and 12. Do not use the for loop, use the while loop instead.

   ```matlab
   N = input('Input N: ');
   tempValue1 = 1;
   tempValue2 = 1;
   % Add the necessary code here
   ```

2. Write a script that, given a number $n$, prints out all the prime numbers from 2 to $n$ inclusive. As a reminder, a number $m$ is prime if and only if it is not 1, and the only divisors of $m$ are 1 and itself. It should ask for the user to key in the value of $n$, and displays all the necessary prime numbers after its computations.

3. Write a Matlab function $aprime(m)$ that has an input parameter $m$. Function $aprime(m)$ returns 1 if $m$ is prime, and 0 otherwise. Remember to write a concise comment to describe the function, including its parameters, under the function header. After doing so, go back to problem 2 and write a program that would make use of the function $aprime(m)$ that you have just created here to complete the tasks stated in problem 2.