Problem set 1: Variables and control structures

- 1. Find if *n* is prime number.
- 2. Find sum of prime numbers between 1000 and 2000.
- 3. Read *n* numbers and store them in a list. Find the following parameters without using any python functions and methods available with list data structure:
 - a. Total
 - b. Average
 - c. Maximum
 - d. Minimum
 - e. Second maximum
 - f. Second minimum
 - g. Solve (c)-(f) using python functions and/or methods available with list, if possible.
- 4. The numbers 0, 1, 1, 2, 3, 5, 8,..., etc, form Fibonacci series, defined as f(n) = f(n-1) + f(n-2) where f(0) = 0 and f(1) = 1. Now:
 - a. Find the n^{th} value of the series
 - b. Find the sum of first *n* Fibonacci numbers