

#### Assignment 4 – Definite Loops

Assessment for this assignment will be done by Mr. Colwell in class, at your computer, with a one on one interview. Mr. Colwell may ask you to describe features of the loop. When you are ready to have the assignment evaluated, make sure you can access all the scripts quickly.

1. Write a loop that counts how many even numbers there are between 100 up to and including 150 and displays the result on the screen. Save the script in your user drive as `\Python34\A4_1.py`
2. Write a loop that gets the sum of all the numbers in a sequence up to the users choice of numbers and displays the result. Eg: User inputs 5, and the computer adds:  $1+2+3+4+5$  and displays: The total of the sequence is: 15. Save the script in your user drive as `\Python34\A4_2.py`
3. The Fibonacci Sequence is a sequence of numbers where the next number is the addition of the previous two numbers of the sequence. Write a script that computes and prints out the next number in the sequence based on user's input of the  $n^{\text{th}}$  number. The Fibonacci sequence starts with: 1,1,2,3,5,8,13,21,34,... Save the script in your user drive as `\Python34\A4_3.py`