Chapter 6 Reading Files

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**Instructions**:

For this assignment, you will be providing the logic (plan) for the following program:

Write a program that will read numeric data from a text file line by line using a loop. Strip the newline and convert each value to a float, then display it. Use variables to count and total the entries. At the end, display the total, count and average of the values.

**Data**:

Variables:

* File: variable to open ‘numeric\_data.txt’
* Counter: Int to keep track of how many numbers are in the file
* Total: float, keeping track of the sum of all numbers from the file
* Line: String, represents an individual line from the file
* Average: total / counter, average of all numbers in list

**Processing**:

1. Initialize counter and total to 0
2. Open numeric\_data.txt file
3. Loop through each line of the file
   1. Increment counter by 1
   2. Convert string number to float (strip \n and remove commas)
   3. Add number to total
4. After reading each line, display the total, counter, and the average
   * 1. Average = total / counter

**Output**:

Display the total, number of entries in file, and the average of all the numbers

**Example**:

Total: 547,363.31

Number of Entries: 11

Average: 49,760.30

Process finished with exit code 0