**Chapter: 5**

**Assignment: Average numbers**

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**EXECUTIVE DESCRIPTION:**

**“What’s the Average?” Vers. 1.0**

This program is called ”What’s the Average?”. The program is ready for Beta testing.

This program is designed to take a list of numbers (doesn’t matter how long it is) from the user, decide how long the list is, and calculate the average of that list of numbers for the user in the shortest code possible.

**INPUT**: I will ask the user to enter their name, as I always do. I will then ask the user to input their series of numbers, or the sentinel value -100 to exit the loop when they are done entering numbers.

**PROCESS/ASSIGNMENT STATEMENTS**:

Here, I will be using a while loop with a counter.

Assigning these variables:

Number = integer

Count = integer

Average = float

Sum = integer

UserName = string

These all must be initialized, or in other words, set to 0, with the exception of UserName, which will be overwritten at the beginning of the program.

**Process/Output Module**:

In this phase we will combine processing with output, since there will be so little of both. This is a simple program, after all.

The user will see the average of all of their numbers, and immediately following that, I will write to the screen this message.

“Thank you for using “What’s the Average?”. Have a nice day!”

This will be the final message of the program. The program has now concluded.

**The program completed in 43 lines of code.**