**Array Introduction**

**Outcome:**

* **Students will demonstrate the ability to create, populate, and display arrays and values within arrays.**
* **Students will demonstrate the ability to do math with array values.**
* **Students will demonstrate the ability to design a menu system.**
* **Students will demonstrate the ability to write and use functions.**

**Program Specifications:**

**You are to write a C program that will contain the following MENU:**

1. Enter a number
2. Display the Sum of all numbers entered
3. Display Average of Numbers entered
4. Display all numbers entered
5. Quit

This program will allow the user to enter up to 1000 numbers. Once a user enters 1000 numbers he or she cannot enter anymore. All programs from this point forward will be written using functions where ever possible.

**Submission Requirements:**

You must follow the rules from the first assignment. You must use FUNCTIONS.

**YOU CANNOT:**

* **Use global variables**
* **Use the word goto**
* **Use the break command outside a case statement**