

## **Psychology 465**

### **VB6 MiniAssignment #4**

The purpose of this assignment is to introduce arrays and sequential files. You can find a detailed description of arrays in Chapter 11 and of sequential files in Chapter 12 of *Idiot's...* The assignment resembles VB6 MiniAssignment #2 except that here you are to use an array to store the inputted numbers, write those numbers to a file, read them out again, and then calculate the mean using the array variable.

Use any commands and objects you require to do the following:

1. Set up a form so that the user can input a series of (non-zero) numbers (from 3 to 7; how many is up to the user) into a floating point array (make your array large enough to store them all).
2. Store the numbers entered by the user in a sequential file in a designated directory on the main disk drive of the computer (use an IF-THEN-ELSE to decide whether to store each number).
3. Since you do not know how many records are in the file, use a looping structure to input data from the file into a second array with an EOF (end-of-file) function as the condition that will terminate the looping; print the number of records in the file on the form.
4. Calculate the mean of the data in the second array and print that mean on the form.

You may customize your program by personalizing it or making any other additions as long as the above 4 items are satisfied. Remember to liberally comment your program.

*Things to think about or play with:*

1. Does it make any difference whether a file is opened for OUTPUT or APPEND the first time it is opened?
2. What is the difference between "storing" information in an array versus in a file?
3. Try prompting the user to "tell the computer" where he/she would like the file to be stored (while you as programmer continue to supply the file name. HINT: use a string variable).
4. Are there any differences between strings and numeric variables in terms of how data must be stored in a file? In an array?