

COP 3331 Summer 2017: Programming Assignment 5

Due: Tuesday, 4 July, 11:55 pm

Please include the following files in a zipped folder and submit the zipped file via the assignment link on Canvas. The zipped file should have the name "proj5-xxx.zip" where xxx is your NetID.

- File I/O Exercise (50 pts) – fileIOmain.cpp
- README file: A plain text including instructions on how to compile and run your code in the IDE you used. This file should include any special instruction/information that the TA should know to be able to run your code.

File I/O Exercise

On Canvas, you will find a text file called Random.txt under "Files" tab and under "Projects" folder. Download that text file to your computer for use in this exercise.

Tip:

Make sure that any files that you create and write to or read from are in the same directory location as your fileIOmain.cpp program.

In Visual Studio, go to the project file and place it in the second folder that shares the name of your project. (You'll know you're in the right location if the source code is already there.)

In Xcode go to: Product > Scheme > Edit Scheme.

In the new window, click on Run test (on the left) > Options (middle top)
Under options check "Use custom working directory" and set it to the directory where your fileIOmain.cpp files is located.

Task:

Write a program that reads the file and does the following:

1. Asks the user for the filename (in this case Random.txt)
2. Counts the number of random values in the file
3. Returns the sum and average of the numbers in the file
 - a. The average value should have two digits after the decimal point

Output is shown below:

Enter the filename: Random.txt
Number of numbers: 200
Sum of the numbers: 105527
Average of the numbers: 527.63