CSC 142 **Debugging, testing and correcting code** **Project 2A** **10 pts**

Goals:

- Provide practice for you to work with someone else's code.
- Provide practice debugging and testing code.

Description:

You and a group of your classmates are working on a basic calculator to run in Java. Your teammates have provided you their unfinished code (in the form of a .java file), and it is now your job to read, decipher, debug, test and correct their code. Some of the errors are syntactical, all of which you will need to correct first. Other errors are logistical, which may require some testing of the code to discover. You should test special cases (zero, large numbers, small numbers, etc.) to be sure the code operates as intended. As you make each correction, provide comments in the code for your teammates so they can see what you've changed (for example "//this method needs to return an int object" or "//need to declare variable total first.").
[Note: There are about a dozen total errors in the code.]

Throughout the process, you will need to keep track of what you have done, and compile that work into a reflection journal (.doc file). Much of this can be done utilizing the comments that you've made in the code throughout the process, but when testing each operation, you should copy and paste your console outputs into a .doc file to help document the process. This content should be added to the journal, along with a description of the results and what changes (if any) you made.

Submission:

[7.5 pts.]
Submit the revised source code ***FixedCalculator.java*** file. Put your full name in the class comments at the start of the code.

[2.5 pts]
Submit your journal reflecting on the work you've done. You should discuss your process of finding and correcting the syntax errors, then describe your process of testing logistical errors. Copy and paste (either directly out of console or take screen shots) as you test each operation with first normal then special cases. Keep track of and report approximate overall time spent on each phase of this process.