CS 215 – Spring 2021 Lab 1

Learning Objectives:

- First use of Microsoft Visual Studio C++
 - Create a new project
 - Add a source file to the project
 - Type/Enter C++ code
 - o Compile/Execute a C++ program
 - O Debug a C++ program
- Demonstrate a lab to a TA
- Submit a .cpp program in Canvas
- 1. Look at the detailed steps on how to start each new Lab/Project/LabExam found in the **start** document under **Labs** on the course website: http://cs.uky.edu/~kwjoiner/
- 2. Follow the steps in the document, naming the project Lab1 and the source file lab1.cpp
- 3. Copy (type) the following code into MS VS:
 - a. note: no copy/paste available from this .pdf document.
 - b. You do not have to enter the (green) comments found to the right of some lines of code.
 - c. You do need the comment box at the top. Add your name and section where indicated

4. Save and execute your program as described in the **start** document. If you have errors, fix them and try again.

- 5. If you had no errors, and the code executed the first time, congratulations!! However, you need to see what compiler errors look like.
 - a. remove the semicolon (;) from the end of the return 0
 - b. compile and execute again.
 - c. You should see a "missing semicolon" error message at the bottom, and the black execution box should not have popped up.
 - d. Correct the code: put the semicolon back.
 - e. Compile and execute again. Fix any other errors you may have caused.
 - f. When it compiles and executes correctly again, SAVE.
- 6. **Demonstrate your code to the TA**. If you do not demonstrate your code, even if you turn it in in Canvas, you will receive a grade of 0!! The TA may ask you to make some corrections. If so, make the corrections and demonstrate again...repeat until you have 100%!
- 7. After the successful demonstration, **submit the code in Canvas**. See the instructions in the **start** document about which file to submit. Even if you successfully demonstrated it to the TA, if you do not submit in Canvas by the deadline, you will receive a grade of 0!

Grading Rubrics: The TA will make the following checks during the demonstration, and may add more.

- 1. Was the **Comment Box** entered correctly at the top, with the student's name and section? [Note: comments on line 10-23 are not required]
- Were the #includes and using coded correctly?
- 3. Was the main() function coded correctly?
- 4. Was the code **indented and lined up** correctly, as shown in the example?
- 5. Did the program **execute** correctly?
- Have the student demonstrate what happens when there is an error (remove a semi-colon, or something simple). Be sure to correct the code and make sure it executes correctly before submitting.