

COMP 2160 Programming Practices

Lab1 (Sep 12-14)

Objective

- Familiarization with Unix
- Familiarization with C

Preparation

Look at the document “A brief introduction to UNIX, VI and clang” (available in UMLearn). You can read it later on your own time, but it includes information about some of the commands you need to use for the lab.

Exercise

Log into your CS account and create Labs and Assignments directories; this is where you will keep all of your work. Within the Labs directory create a directory called **lab1**. Within the Assignments directory create a directory called **a1**. You must use this structure for all work in this course (further refinements will be made as required).

Write a “Hello World” program in C and compile it using clang. The file should be called **exercise1.c** and be stored in lab1. The output from clang should be **exercise1**, without having to rename **a.out**.

Completion

To earn your completion marks, you must be able to demonstrate the following actions to lab TA either **before you leave the lab** or, if you are unable to complete the lab in the scheduled time, **at beginning of lab2**.

1. Log into the Mac OS X system using your user ID.
2. Open Xcode (or whatever text editor you prefer) and a Terminal window.
3. Open your **exercise1.c** program in the text editor.
4. List the contents of your **lab1** directory in the Terminal.
5. Compile and run your **exercise1.c** program in the Terminal.
6. Log out (without shutting down the computer!)

After you have shown your work to the TA, please make sure to sign the sign-up sheet (which the TA will bring), and the TA will record your grade for the lab.