

Objective: The goal of this lab is to become familiar with Linux and the IDE environment. And to also familiarize yourself with principles of test driven development using a UnitTest framework.

Assignment:

- 1) Use the two docs on Piazza site to:
 - a. setup your VM
 - i. Set up VM itself
 - ii. Copying paste functionality
 - b. development environment.
 - i. Includes compiler
 - ii. VS Code for linux
 - iii. Google Test libraries
 - c. Shared Drive and mounting
- 2) BackUp your VM in case something bad happens (as a student you have ridiculous amount of space on OneDrive 😊).
- 3) Download tar file of lab00 put it in Shared directory.
- 4) In the VM, copy the tar file to a directory and unpack it.
- 5) Perform:
 - a. cmake CMakeLists.txt
 - b. code .
 - c. In VS Code Click Build
 - d. In VS click which exe to run (and hit run) – Run both of them exe
 - e. Set some breakpoints, and then run with debugger
- 6) Fix the code to make UnitTests pass
- 7) Make Report that shows screen captures of the following (paste these into a document and turn **this into a PDF**).
 - a. VM Backed up in OneDrive
 - b. Output showing you could run the Main program and the Test programs
 - c. Show me you can set breakpoints and see values of variables
 - d. Show me that you got LiveShare working

The grade on this assignment will be determined by:

20% On having the testcases pass legitimated (see note in syllabus about dishonesty)

80% Screen Captures **in PDF**

For you submission, turn in the PDF and the file you had to modify (whattotest.cpp).