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CSC415 Operating Systems

Assignment 6 – Device-Driver

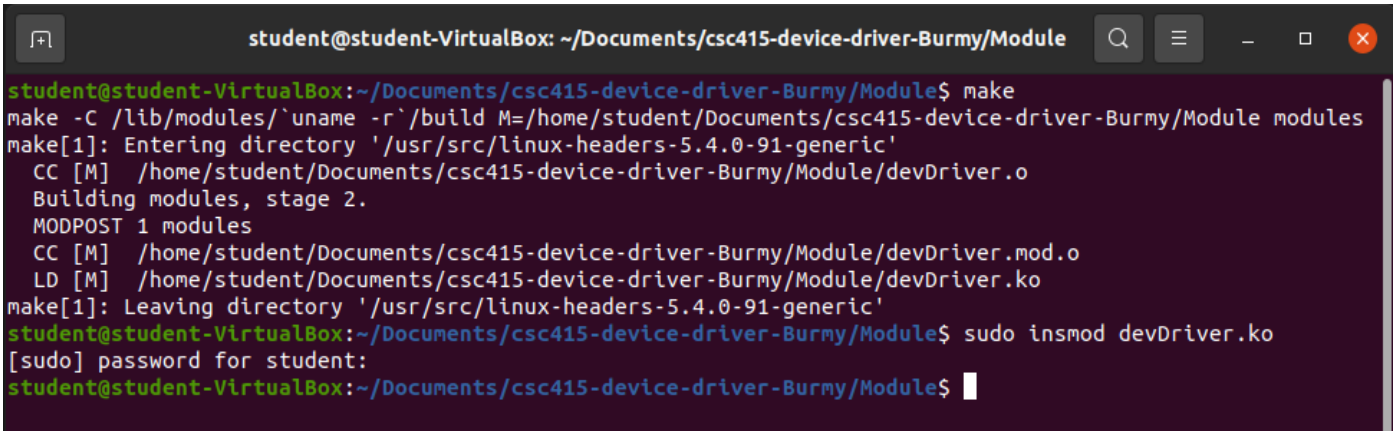
Description:

This assignment is a simple Linux kernel module that takes in a message from the user and returns that message in all capital letters. It is written in C and is a valid and loadable device driver with at least some minimal user/application functionality. There are two directories. The first is Module that has your kernel module. There is also a Test file for the device driver that has our test user application. Takes the user's message and sends it to the module. This message is then displayed to the user in the terminal. Methods such as open, release, read and write are included in the driver. It is also able to be unloaded, and indicates that it has been unloaded from the system.

Steps to run the program:

1. Once you are in the assignment directory, using your terminal first navigate to the “Module“ directory and run “make”.

2. After that type “sudo insmod devDriver.ko”



3. Then go to the “Test” directory and again run “make”

4. Then lastly run “sudo make run” which will run the program.