

# CS3500 - Operating System, August 2022

## Lab 0: Introduction

Understand the Linux commands from the supporting reading material and try to do the following using Command Line Interface.

Getting help

- Read **man intro**
- Read **man ls**
- Read **info passwd**
- Enter the **apropos pwd** command.
- Try **man** or **info** on **cd**.
- How would you find out more about **cd**?
- Read **ls --help** and try it out.

### Practice Question 1

- Login to the system with your user account and open the terminal!
- What is the current/working directory just by looking the prompt?
- Check the name of your working directory with **pwd** command?
- List the content of your home directory
- Create a subdirectory called Practice in the directory Home
- Create a file linux.txt using **cat** command and write some text in it.
- View the file linux.txt with more command! Which effect do the keys CR and SPACE have? Also use a different text editor to view the file.
- Write a hello world C program in Practice folder and execute it.
- Create a copy of the Practice folder as Copy\_Practice and change its ownership to just execute for the current user using **chmod**.
- Remove the Practice folder and rename Copy\_Practice as Practice\_renamed

### Practice Question 2: Searching with grep

- Use the following commands to document hardware information for your lab computers: **df**, **du**, **cat /proc/cpuinfo**, **cat /proc/meminfo**, **devices**, **partitions**, **ifconfig**, **ip addr**, **cat /etc/fstab**, **uname -a**
- [Direct the output](#) from these commands into text files (make as many text files as you wish to organize this documentation reasonably). Use both **>** and **>>** to organize the data.
- Redirect the **dmesg** output to a text file, and then use the **grep** utility to display any reference to "memory" or "CPU" in the file. What else does this file tell you?