#### Part 1

Question 1: cd /home/vpallip/ecpe170/project1/src

Question 2:

Top Level: /

Lowest Level: /home/vpallip/ecpe170/project2/src/

#### Question 3:

# Question 4a: Recursively deletes the root directory

## Question 5:

General command: man Is

Next Page: PgDn or down button

Quit: q

Question 6:

wc -m < myfile.txt > myfile char count.txt

Question 7

ls -a ~

Question 8

mv data.txt ~/experiment1

Question 9

Is -S /etc

Question 10

wget http://www.google.com/doodles/roswells-66th-anniversary

Question 11

pwd

Question 12

Is -Ih /boot

Question 13

df -h /

#### Question 14

The kernel is the heart of an operating system. It enables sharing hardware resources between different processes. It also allows access to the cpu, memory, disk, i/o, and networking. In short, it allows physical access to the devices plugged into the system.

#### Question 15

Ubuntu Linux is the kernel combined with a lot more. For example, a GUI is not part of the kernel, but Ubuntu does use the kernel to interact with your keyboard and mouse. In short, Ubuntu contains the kernel and builds on top of it to provide a usable experience to the user.

#### Question 16

A virtual machine is a machine that is running inside a container on an existing system. It is separated from the host and most of the actual system is emulated. This means if you brick the system in the VM, the host system will not be lost Question 17

Dual booting is different from VM's because dual booting means you're running on actual hardware. This means that the performance of the system will be a lot better, but the risks also are more prevalent. For example, if you brick your boot drive on a dual booting environment, the system will not be able to boot at all and repairs must be made. On the other hand, if the same happens on a VM, the host system will not be affected.

Question 18

VI IS THE BEST CODE EDITOR

### Question 19

- 1. Faster than using a UI most of the time for filesystem/syscalls
- 2. Allows you to do more abstract stuff with the folders and files
  - a. wildcards are a thing
  - b. reading and writing without using a whole text editor
- 3. Ability to string together multiple commands through piping and redirection Question 20

./ = current folder

../ = current folder's parent