Week 1 Notes

Oracle VM VirtualBox

- can run through:
 - Oracle VM VirtualBox
 - putty
 - or cmd "ssh user@localhost -p 6022"

Shell:

- an interface to kernel
- example of shell(s):
 - Bourne Shell
 - Bourne Again Shell (bash)
 - C Shell

Filesystem Hierarchy Standard

- Linux distribution file and directories structure
- structure like:

/ : The root of directories

/bin: Contain essentials command binaries

/boot : Contains boot loader, files booted at stratup

/dev : Contain device files

/etc : Contain system configuration files

/home : Contains directories for users

/lib: Contain libraries for the essentials command binaries

/media : Contain removable media's mount points

/mnt : Contains mounted filesystems

/opt : Contain application software packages

/proc : Contains process and kernel information in files

/root : Contains directories for root user.

/run : Contain runtime data

/sbin : Contain the essential system binaries

/srv : Contains site-specific files

/sys : Contains device and drivers information

/tmp : Contains temporary files

/usr : Contains read-only user data

/var : Contains dynamic variable files

/proc command

- contains process and kernels info
- use it like reading files with cat

(Absolute vs Relative) Path:

- Absolute
 - The full path from root (/)
- Relative
 - Like absolute, but the root is the current working directory

(Application vs System) Programming

- Application
 - Program to bridge between User and Hardware
 - User-oriented
 - To provide a service to user
- System
 - Program to bridge between application/programmer and Hardware
 - Programs develop around hardware utility and application/programmer's needs
 - To give accessibility of hardware's utility to application/programmer