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CSC 2510: DevOps

Lab 01 – System Navigation

General Instructions

Using your book and previous lecture material, fill out this assignment sheet. **Use red text to signify your answers.** Use information from your textbook and the provided lectures to answer the questions on this lab. You may utilize online resources to answer these questions if you cite them.

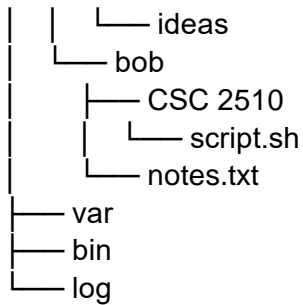## Submission Instructions

To submit, **change the name in the header** and save this document as a PDF. Attach your PDF document to the iLearn dropbox.

Lab Questions

1. (5) What is the difference between a *relative path* and an *absolute path?*
   a. An absolute path starts with a slash as root directory which traces all intermediate directories after a slash to the file identified by the pathname. Whereas for relative path, it traces a path from the working directory to a file which does not start with a slash or tilde, excluding the root and full pathname.
2. (5) What is the root directory? What symbol is used to represent it?
   a. The root directory is the very beginning of an absolute path which is represented by a slash or tilde.
3. (5) List two ways to change your present working directory to your(username's) home directory on a machine when you do not know the absolute path to it.
   a. cd ~
   b. cd
4. (2) What command will show you hidden files? ls -a
5. (2) What command will show you your present working directory? What type of file path does this command give you?
   a. pwd will give you the absolute path
6. (2) What command will show you the meta data details of a files in your present working directory?
   a. ls -l
7. (4) Suppose you have the following file tree structure.
   ```
   /
   ├── home
   │   ├── alice
   │   │   ├── myProject
   │   │   │   └── myProject.java
   ```

<Brian (Won) Lee>

```
│   │     └── ideas
│   └── bob
│       ├── CSC 2510
│       │     └── script.sh
│       └── notes.txt
├── var
├── bin
└── log
```

a. If your present working directory is `/home/alice/myProject`, how can you get to `/home/bob/CSC 2510` without the absolute path in one command? Be sure to indicate how you handle the whitespace in the folder name.
   i. cd ../../bob/"CSC 2510"
b. If your present working directory is `/home/alice/myProject`, how do you navigate to `/home` without the absolute path in one command?
   i. cd ../..
   ii. cd ~