Getting Started
Exercise Answers

1. List the contents of the current directory

   `ls`

2. Change to the root directory and display its contents

   ```
   cd /
   ls
   ```

3. Display the contents of the *etc* subdirectory

   `ls etc`

4. What is the absolute pathname of the file *passwd* in the *etc* subdirectory? Test your answer using `ls`.

   `ls /etc/passwd`

5. From the root directory, what is the relative name of the file *passwd*?

   `ls etc/passwd`

6. Change (`cd`) to your home directory

   `cd`

7. What is the absolute pathname of your home directory?

   `pwd`

8. ~ expands to your home directory. *~username* expands to the home directory of a particular user. List (`ls`) the contents of your home directory

   ```
   cd
   ls
   ```

9. Make a subdirectory off your home directory called *cosc110prac0* and make it the present working directory

   ```
   mkdir ~/cosc110prac0
   cd ~/cosc110prac0
   ```

10. List the contents of your home directory from your present working directory

    `ls ~`

11. Using a Web browser on *turing*, download the slides for this week's lecture from the COSC110 Moodle page. Make sure you store the file in the *cosc110prac0* directory. Use the utility `xpdf` to view the slides (`man xpdf` could be helpful)

    `xpdf slides.pdf`

12. Remove the slides from the *cosc110prac0* directory using a command

    `rm slides.pdf`

13. Use a text editor (perhaps `pico`) to create a file called *UNIXCommands*. Enter the following content:

    ```
    cd        change directories
    pwd       present working directory
    mv        move
    cp        copy
    less      list file contents
    ls        list directory contents
    mkdir     directory-name
    rm        remove a file
    ```

    `pico UNIXCommands`

14. Display the contents of *UNIXCommands*

    `cat UNIXCommands`

15. View the man page for `wc`

    `man wc`

16. Use `wc` to count the characters, words, and lines in *UNIXCommands*

    `wc UNIXCommands`

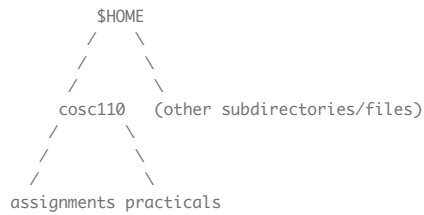17. Use `grep` to display just the lines of *UNIXCommands* containing the text "file"

    `grep file UNIXCommands`

18. Edit the file UNIXCommands and add:

```
grep      search for a pattern in a text file
wc        count lines, words and characters in a text file
```

`nano UNIXCommands`

19. Create subdirectories so your home directory includes the following:

```
          $HOME
         /     \
        /       \
       /         \
     cosc110   (other subdirectories/files)
     /     \
    /       \
   /         \
assignments practicals
```

```
cd ~
mkdir cosc110
cd cosc110
mkdir assignments
mkdir practicals
```

20. Don't forget to log out (either type `exit` or press Ctrl-d (i.e. hold down control and press d)

`exit`

Last modified: Thursday, 1 February 2024, 10:42 AM