

Linux Basics & File Manipulation

Basics (40 pts)

Launch a Unix terminal and answer the following questions. If you are using something other than Ubuntu please let me know.

1. (Counts as 2 questions) Explore the file system by using the commands **ls**, **cd**, and **pwd**. Use the book or the **man** command to get more information on these commands.
 - What is the name of your home directory?
 - What is the full path to your home directory?
 - What are the names of ALL the items in your home directory (this includes hidden items)?
 - Tell me the names of 3 files found in the `/etc` directory.
2. Use the **man** command to find out what the **wc** command does. Write a brief description of the **wc** command.
3. Use the **man** command to find out how to make the **uname** command display **all** the information it can about the current system. Write the full command and output of the command below.
4. What are the first few lines in the file `/etc/passwd` (that don't begin with the `#` character) and what command did you use to see this information? What is this file for?

File Manipulation Practice (60 pts)

Use the "\$" prompt under each question to write down the command you used to successfully execute each task. Your initial working directory for this assignment is your home directory.

1. Use the **touch** command to create a file named **file1** in your home directory.

\$

2. Copy **file1** to a new file in the same directory called **file1_copy**.

\$

3. Create a directory in your home directory called **my_docs**.

\$

4. Move **file1_copy** into the **my_docs** directory and rename it to **file2** in the process. Do this in one command.

\$

5. Try to delete the **my_docs** directory using the **rmdir** command. Notice what happens, it won't let you delete a directory that isn't empty. Now delete the **my_docs** directory using just **rm**, be sure to use the correct options. You can reference the man page for the **rm** command if you forget them.

\$

6. Create a new directory called **my_new_docs** wherever you want. Use the **ls -l** command to view detailed information about this new directory **my_new_docs**. What are all of the items listed in this output for this directory? Can you use the man page or another resource to figure what each item is that is printed from this command output? List each item here.

Practice

Practice making files and directories and moving/copying files into and around your home directory. Be sure to create a directory structure several directories deep and practice copying/moving files around using both absolute and relative paths. This is just for practice. You don't need to write anything on this worksheet.