**Linux Lab #1.3**

**Note:** *Before completing this assignment, please read/watch the following online resources:*

* The Linux Cookbook: Tips and Techniques for Everyday Use - Files and Directories.

(n.d.).

Retrieved from <http://dsl.org/cookbook/cookbook_8.html>

* Linux File system Hierarchy. (n.d.). Retrieved from <http://www.tldp.org/LDP/Linux-Filesystem-Hierarchy/html/c23.html>

* *Linux Filesystem Hierarchy - Part One* [Video file]. (n.d.). Retrieved from <https://www.youtube.com/watch?v=460IxkYmZxQ>

* *Linux Filesystem Hierarchy - Part Two* [Video file]. (n.d.). Retrieved from

<https://www.youtube.com/watch?v=WMaWG5ZRht4>

**Direction:** *Please use the following directory structure to answer questions 1 and 2:*



me

ho



d

e

misd



db



Linu

x



vb



assignments



labs



…



**mmon**

**co**



c

ac



…



cs



de

m

sie

is



dbms



submit



vb



unix



mes

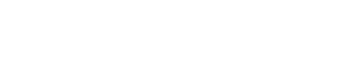
Ja



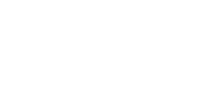
**…**



**/**



Root



Home

Directory

1. Write the absolute pathname to the common area (*highlighted in yellow*). **Answer:**

**/common**

1. If you are currently in the common area and you enter the following command: ***cd ..***

Write the absolute pathname of your current location.  **Answer: /**

1. If you include the following syntax at the end of a command line what will happen? The syntax is : “ **| more**”  **Answer:** The result will be paginated

1. What is the difference between the “**>**” operator and the “**>>**” operator when used in conjunctions with the ‘cat’ command?

**Answer:** > create a file

**>> append the context of one file to the end of another file**

1. Please provide the correct ***chmod*** command to set the following permissions: Use the entire command, Starting with ***chmod*** and ending with the filename.

-rwxr--r-- 1 demissie staff 3 Dec 12 07:44 junk.txt  **Answer:** chmod 744 junk.txt

-r-xrwxr-x 1 demissie staff 3 Dec 12 07:44 junk.txt  **Answer:** chmod 575 junk.txt

-rwxr-xr-x 1 demissie staff 3 Dec 12 07:44 junk.txt  **Answer:** chmod 755 junk.txt

-rwxrwxrwx 1 demissie staff 3 Dec 12 07:44 junk.txt  **Answer:** chmod 777 junk.txt

1. If your current directory is ***/home/mary/project1*,** write the command to move to the **/etc** directory directly under the root?

**Answer: cd /etc**

1. After typing the ***ls –a*** command, you notice that there is a file whose filename begins with a dot (.). What does this mean?

**Answer: It is a hidden file**

1. After typing the ***ls –F*** command, you notice a filename that ends with an asterisk (**\***). What does this mean? **Answer: It is an executable file**

1. If resume is the name of a file in the home directory of the root of the files system and your present working directory is home, what is the relative name for the file named resume?

**Answer: cd resume**

1. What will the following wildcard regular expression return: ***file[a-c]?*** **Answer:** filea fileb filec

1. A user typed in the command ***pwd*** and saw the output /***home/jim/sales/pending***. How could that user navigate to the ***/home/jim directory***? **Answer:**

cd *home/jim*

1. Sue’s current directory in the directory tree is ***/home/classmarks/linux***. She then types the command ***cd ..*** What directory will appear if Sue types the ***pwd*** command? **Answer:** /home/classmarks

1. What does the ***/var*** directory contain?

**Answer:** Contains variable data like system logging files, mail and printer spool directories, and transient and temporary files

1. Given the following output from the ***ls*** command, how many files are linked with file1?

drwxr-xr-x 3 root root 4096 Apr 8 07:12 Desktop -rw-r--r-- 3 root root 282 Apr 29 22:06 file1

-rw-r--r-- 1 root root 282 Apr 29 22:06 file2

-rw-r--r-- 4 root root 282 Apr 29 22:06 file3

-rw-r--r-- 2 root root 282 Apr 29 22:06 file4

-rw-r--r-- 1 root root 282 Apr 29 22:06 file5 -rw-r--r-- 1 user1 sys 282 Apr 29 22:06 file6

**Answer:** 2

1. If your current directory is ***/home/bill/projects/acme/plans***, what is the safest way to change to the

***/home/bill/projects/acme directory?***

**Answer:** cd ***..***