

CIS-350
Infrastructure Technologies
Lab 5 Report

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Your home directory is your login directory. Linux commands are case sensitive, the vast majority of them is in lower case. File names are also case sensitive. Open pico/nano/vi editor and type a brief evaluation of the lab. Describe what commands worked and what did not? Change a directory on your local machine to the Desktop and download the evaluation file to the Desktop of your local computer using a PSFTP client and command *get*. Open the file in Notepad/Word, print it, and attach to this report. Do not use Notepad/Word to type your evaluation. The PSFTP commands such as *lpwd* and *lcd* would be useful to check the default directory and change the directory, respectively, on your local machine. In PSFTP use command *help* to display the list of commands.

1. What command would you use to find out which shell is your log in shell?
_____ **echo \$SHELL** _____
2. What command would you use to output the directory listing (in a long form and including invisible files) to both the computer screen and file *myfile* at the same time?
_____ **ls -al | tee myfile** _____
3. Assume a file named *Fruits* that you created in your home directory contains several spelling errors. What command would you use to find these errors in file *Fruits*?
_____ **spell Fruits** _____
4. Assume that you created a script file named *MyMenu*. What command would you use to execute the script file?
_____ **./MyMenu** _____
5. What command would you use to display the first 4 lines in a file named *prog1.c*?
_____ **head -4 prog1.c** _____
6. What command would you use to display the calendar for year 2017?
_____ **cal 2017** _____
7. What command would you use to put a current shell to sleep for 50 seconds?
_____ **sleep 50** _____
8. Assume that a file named *MyNeighbors* exists in your home directory. What would the command *wc MyNeighbors* generate? Describe.
_____ **The command wc MyNeighbors would generate the number of lines, words, and characters in MyNeighbor.** _____
9. Assume that a file named *LastNames* exists in your home directory. What command would you use to find all occurrences of word *Brown* in file *LastNames*?
_____ **grep Brown LastNames** _____
10. What is the command to display the current date?
_____ **date** _____
11. An *ls -al myfile.c* command displayed the following attributes of file *myfile.c*. Describe all the attributes, including the access permissions given to the three groups of users and the permission types.
- rwx r-x r-- asbrow15 250 Nov 20 15:45 myfile.c

The access modes r stands for read, w stands for write, and x stands for execute. Access permission for the owner's group is rwx, permission for the owner is r-x, and permission for the all other users is -r.

"asbrow15" is the owner, 250 is the size in bytes, Nov 20 is the date and 15:45 when the file was last modified and myfile.c is the file name and extension.

```
clfenn01@mercury: ~  
GNU nano 2.9.3      comments      Modified  
The commands in Lab 5 executed succesfully.  
  
^G Get Help      ^O Write Out    ^W Where Is    ^K Cut Text    ^J Justify     ^C Cur Pos  
^X Exit          ^R Read File   ^\ Replace     ^U Uncut Text  ^T To Spell    ^_ Go To Line
```

```
clfenn01@mercury: ~  
clfenn01@mercury:~/checkuser  
The number of times you are currently logged on is:  
./checkuser: line 2: who: command not found  
0  
clfenn01@mercury:~/nano checkuser  
clfenn01@mercury:~/checkuser  
The number of times you are currently logged on is:  
1  
clfenn01@mercury:~/script designmenu  
Script started, file is designmenu  
clfenn01@mercury:~$ chmod 755 design menu  
chmod: cannot access 'design': No such file or directory  
chmod: cannot access 'menu': No such file or directory  
clfenn01@mercury:~$ chmod 755 designmenu  
clfenn01@mercury:~$ ./designmenu  
bash: ./designmenu: Text file busy  
clfenn01@mercury:~$ exit  
Script done, file is designmenu  
clfenn01@mercury:~/exit  
There are stopped jobs.  
clfenn01@mercury:~/Lab5  
bash: ./Lab5: Permission denied  
clfenn01@mercury:~/nano comments  
clfenn01@mercury:~
```