Assignment #2

(Exploring Linux)

Paste answers in space below questions. You may create additional space below questions needed to paste your answers.

1.	Try the following command sequence:			
	0	cd		
	0	pwd		
	0	ls -al		
	0	cd.		
	0	pwd	(where did that get you?)	
	0	cd		
	0	pwd		
	0	ls -al		
	0	cd		
	0	pwd		
	0	ls -al		
	0	cd		
	0	pwd	(what happens now?)	
		ad /ata		
		cd /etc		
		ls -al		
	0	cat pa	SSWU	
	0	cd -		

o pwd (what happens now?)

2.	Look in /bin, /usr/bin, /sbin, /tmp and /boot. What do you see?
3.	Explore /dev. Can you identify what devices are available? Which are character-oriented and which are block-oriented? Can you identify your tty (terminal) device (typing who am i might help); who is the owner of your tty (use Is -I)?
4.	Create another user on your Linux system. How?
5.	Change to the home directory of another user directly, using cd ~username.
7. 8. 9. 10. 11.	Change back into your home directory. Make subdirectories called work and play. Delete the subdirectory called work. Copy the file /etc/passwd into your home directory. Move it into the subdirectory play. Create a file called hello.txt that contains the words "hello world". Can you use "cp" using "terminal" as the source file to achieve the same effect? Copy hello.txt to terminal. What happens?

- 13. What is the output of the command: echo {con,pre}{sent,fer}{s,ed}? Now, from your home directory, copy /etc/passwd and /etc/group into your home directory in one command given that you can only type /etc once.
- 14. Experiment with the options on the ls command. What do the d, i, R and F options do?
- 15. Describe three different ways of setting the permissions on a file or directory to r--r--r-. Create a file and see if this works.

- 16. Modify the permissions on your home directory to make it completely private. Check that your directory can't accessed by another user. Now put the permissions back to how they were.
- 17. Type umask 000 and then create a file called world.txt containing the words "hello world". Look at the permissions on the file. What's happened? Now type umask 022 and create a file called world2.txt. When might this feature be useful?
- 18. Use find to display the names of all files in the /home subdirectory tree. Can you do this without displaying errors for files you can't read?
- 19. Use find and file to display all files in the /home subdirectory tree, as well as a determine file types. Do this in two different ways.
- 20. Use grep to isolate the line in /etc/passwd that contains your login details.
- 21. Use find and grep and sort to display a sorted list of all files in the /home subdirectory tree that contain the word hello somewhere inside them.

Challenge Question

- 22. Create a file containing some lines that you think would match the regular expression: (^[0-9]{1,5}[a-zA-z]+\$)|none and some lines that you think would not match.
- 23. How can you check to determine if you are right?