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Shell Commands (20 points)

The first two commands to become familiar with are the commands used to get information about commands. The two commands are man (short for "user's manual") and info. To find out about the ls command, you can type "man ls" or "info ls". The info command tends to give more detailed information, so try man first and if you don't find what you're looking for there, try info. Once you find what you're looking for, you can type q to quit from either utility.

What do the following commands do? Give a brief description. (Use the man pages or just experiment to find out)

1)	man	Manual page
2)	cd	Changes the current directory
3)	ls	<pre>list the content of the directory (try'ls -tral')</pre>
4)	rm	remove delete file or directory
5)	mkdir	Create a directory
6)	rmdir	remove empty directory
7)	diff	Compare two text files & display differences
8)	echo	Display message or value on terminal screen
9)	printenv	Display value of a environment variable
10)	chmod file	Changes the file mode bits of each given
11)	mv	Move a file or directory
12)	ср	Copy a file or directory
13)	cat	Display content of files on screen
14)	less	View content of text file
15)	more	Display the text file, allowing scroll thur
16)	id	Display user & group id for current username
17)	whoami	Display username (compare to 'who am i')
18)	who	Display info abt user currently log in
19)	W	Display information about logged in users
20)	history	Display a list of most recent commands
21)	grep	Search for all occurrences
22)	uname	Display current operating systems
23)	logout	Terminate current session & close window
24)	exit	<pre>Exit the shell in the terminal (what do you see?)</pre>
25)	pwd	Display currently working directory



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26)	clear	Erase all text and output
27)	WC	Word count
28)	seq	Display sequences of number
29)	ln	Create link between files or directory
30)	cal	Display a calendar for specified months & years
	(try 'cal 17	52') Does anything look strange about September? If it was September
	2 nd , 1752 and I s	aid you have an exam on September 14 th , how would you feel about that?

Write down the command and options for doing the following (use man to help find answers)

- 1. List all files, including "hidden" files. To search for ignore within the man page for ls, type the following '/ignore' and press return.
 - a. Is -a
- 2. List all files, including their sizes and timestamps.
 - a. Is -Ih
- 3. List all files, including their sizes and timestamps sorted so that the newest file is listed last.
 - a. Is -altr
- 4. Delete all files in a directory **and** in all subdirectories of that directory
 - a. rm -rf path/directory
- 5. Copy all files in a directory **and** all subdirectories to a new location:
 - a. cp-r

The pwd command (Print Working Directory or Present Working Directory) command shows what directory you are currently "in". Use this command and write down your current directory.

/u/muhumed

Make sure you are in your "home" directory (type cd and press enter). Typing just cd followed by return is like Dorothy clicking her heels together and saying "There's no place like home." Use the pwd command to see that you are in your "home" directory. This is your **home directory**.

The mkdir (make directory) is used to create a new directory. Use this command to create a directory called "cs201" in your home directory.

The cd (Change Directory) command is used to change your current directory (cd cs201). Use this command to change to your cs201 directory. Use pwd to make sure the cd command worked as expected. Create another directory called "Lab0" within the cs201 directory.



What happens when you type cd without any parameters?

-Return to home

Files have an associated protection (or mode) that limits who can do what with the files. Use the following command to create a file in your LabO directory:

The > symbol means redirect the output from the previous command (in this case echo) into the file name that follows (in this case my.file).

Add some more text into my.file by using this:

Yes, that is 2 greater than symbols.

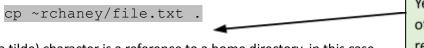
echo "more stuff" >> my.file

The >> symbols means redirect and **append** the output from the previous command (in this case echo) into the file name that follows (in this case my.file).

Show the contents of the file in your terminal:

Use the chmod command to change the mode of the file so that you have full access, people in your group can read the file, and no one else can do anything with it.

Copy a file from my home directory into your Lab1 directory. To do this you should enter the command:



Yes, that is a dot at the end of the command. It is required.

The \sim (a tilde) character is a reference to a home directory, in this case my home directory. If you use the \sim alone, without a user log name following it, it means **your** home directory.

What does the dot at the end of line mean in the above command?

-Current Directory

Create a symbolic link

In your home directory, create a symbolic link to the files under my home directory for the CS201 class:

This creates a symbolic link called rchaney in your home directory to the files I have under my home directory for the CS201 class.





For example, you can 'cd rchaney/Labs' to change directory to where files for the programming labs will be located.