

Lab #2 Solutions

Attempt each of the following tasks on the Linux machine, and write down the corresponding Linux commands you used for each task in your lab notebook:

1. Make a directory called **assign1** under your home directory. `mkdir assign1`
2. Change to this directory. `cd assign1`
3. Make three empty files: **file1 file2** and **file3**. `touch file1 file2 file3`
(You can either use the **touch** command, or the > operator. Try both.)
4. Store the list of all the files and directories (long listing) in a file called **dirfile**.
(Use redirection operator >) `ls -l > dirfile`
5. Display the contents of **dirfile** on the screen. `cat dirfile`
6. Store in a file called **userlist** the list of users who are currently logged into the system. `who > userlist`
7. Combine the contents of **dirfile** and **userlist** and store in the file called **file1**.
`cat dirfile userlist > file1`
8. Print the number of lines, words and characters in **file1**. `wc file1`
9. Copy the contents of **file1** into **file2**. `cp file1 file2`
10. Append the following two lines into **file2**:
This is file2.
And I am using Linux!
`>> file2`
This is file2
And I am using Linux!
`^D`
11. Open **file3** using vi editor and add the following line of text to it: *This is file3!*
Say `vi file3` and then press `i` before typing the line.
12. Save and exit editing **file3**. Type `:wq` after pressing the <Esc> key.
13. Append the contents of **file2** to **file3**. `cat file2 >> file3`
14. Open **file3** using vi editor again, and insert the following line after the first line:
(25 asterisks) ***** `vi file3`, then type `o` and `25 *`
15. Now insert a line of 25 asterisks after the last line of **file3**, just by using few vi commands (that is, do not type out the line again).

In the command mode, go the line containing 25 asterisks, and type `yy` to copy the line. Then navigate the cursor to the last line of the file and press `p`.
16. Save the modified file into another file named **file4**, without exiting vi editor.
`:w file4`
17. Now, count the number of characters in **file4**, without exiting vi editor. (You can escape to the shell by typing `!` in the command line mode.)
`!:wc -c file4` or `!:wc -m file4`
18. Exit vi editor, so that none of these changes you made is recorded in file3. `:q!`