CSC3320 System Level Programming Program Challenge 2 Wasfi Momen September 5<sup>th</sup>, 2016

1) Use cat to display the content in CSC\_Course.txt.

cat CSC\_Course.txt

2) Count the characters, words and lines in CSC\_Course.txt.

wc CSC\_Course.txt -l -m -w

3) Open the manual page for command cat.

man cat

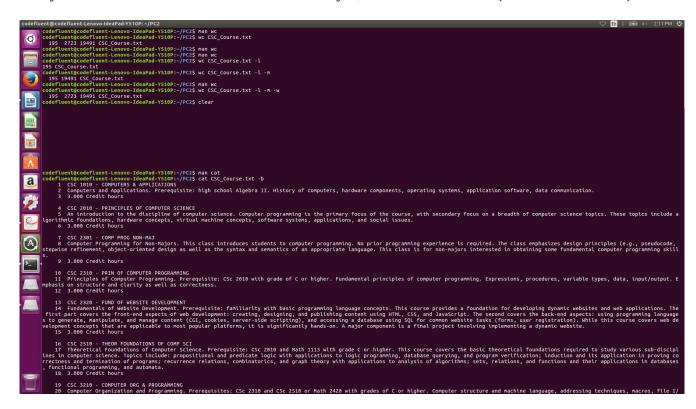
4) What is the option for numbering the output lines?

-b

Quit the manual page.

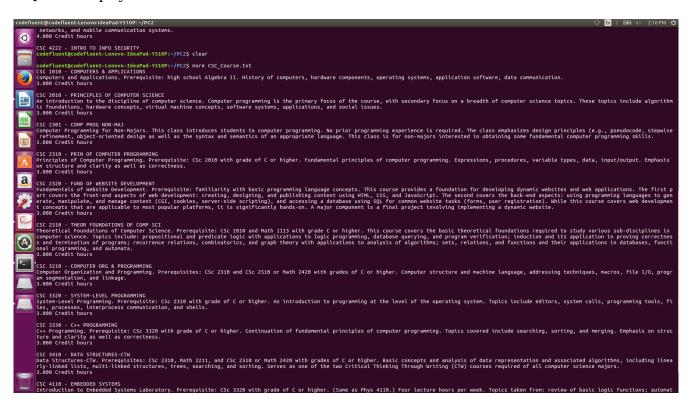
Display CSC\_Course.txt again with line numbers.

Can you see the first line for CSC\_Course.txt? If yes, what is the first line (attach a screen shot)?



5) Use more to display CSC\_Course.txt.

Can you see the first line for CSC\_Course.txt? If yes, what is the first line (attach a screen shot)? Quit the display.



The first line is CSC 1010 – COMPUTERS & APPLICATIONS

- 6) What is the difference between cat and more command? cat displays the whole file at once while more allows you to scroll through the file line by line.
- 7) Output the first 10 lines of "CSC\_Course.txt". head CSC\_Course.txt
- 8) Output the last 10 lines of "CSC\_Course.txt". tail CSC\_Course.txt
- 9) Display the file type for "CSC\_Course.txt".file

10) Display the long listing information for directory PC2.

ls -ld

11) Rename the parent directory PC2 as CSC3320\_PC2. (hint: you can use absolute pathname) mv -i PC2 CSC3320 PC2

12) Rename "CSC\_Course.txt" as "Course.txt".

mv -i CSC\_Course.txt Course.txt

13) Create a new folder "Backup" and copy "Course.txt" into this folder with a new name "Course.backup".

mkdir Backup cp Course.txt Backup

14) Check the file permissions for "Course.txt".

ls -l Course.txt

15) What is the meaning for each bit in the file permissions for file "Course.txt".

They specify the read/write permissions the user has on Course.txt

16) For file "Course.txt", set user only read and write permission, set group only read permission, and set other no permissions with using octal number.

chmod 640 Course.txt

17) Then for file "Course.txt", add read and write permission for all without using octal number.

chmod a=rw Course.txt