207SE Lab 2 – Linux command-line

1 Your task

This week's task is a series of small tasks that require you to use a number of Linux commands. Use script or screenshots to record your activities. If you use the script command you will need to edit the file to remove false starts, mistakes and meanderings if you want to.

a) Create a directory called Portfolio1 in your home directory and make it read/write/executable only for you and your group and executable for others.

mkdir Portfolio1

- Show evidence of this with the ls command.

b) Download the script http://www.centerkey.com/tree/tree.sh to your home directory using wget and make it executable.

type man wget to find out how it works.

c) Create a 207se directory in your Portfolio1 directory.

cd Portfolio

- Create numbered directories for this week and last week. i.e. lab1 and lab2.
- Transfer your week 1 evidence into the folder called lab1.
- Show your evidence using tree.sh

d) Display todays date and using the cal command show the month that you were born.

e) Move into the lab1 directory and use the appropriate command to show the current directory.

f) Find out what talk, write and wall are for.

g) Find out how to prevent the effects of those three commands from interrupting you. What command can you use?

h) Create a text file called song.txt and, using an editor of your choice, enter a random generated song from http://writerbot.com/lyrics

- Use wc to count the characters, words and lines in the file.
- Use grep to show only lines containing "and" and the number of these lines in the document
- Use cat to show the contents of the file.
- Open the song.txt file with a text editor and randomly replace any two words with your first and second names, and save the file as song_name.txt. Use the appropriate Linux command to see if they differ and how they differ.
- Use sort to sort the song.txt file and redirect the output to a new file called song2.txt
- Use sort and rev to reverse the sorted contents of song.txt and append the output to song2.txt.
- Show the total memory used and the total memory available.
- Display you name and student id on the screen using the echo command.
- Find out how you can display your username on the screen.
- List the processes that are running.
- What are the differences between the Linux commands less, more and most.

2 Evidence

A log created using the script command or screenshots, containing evidence of the activities and tasks specified.