

# CSCI 4100 – Assignment 1 – Linux Commands

## Learning Outcomes

Write and execute basic Linux command lines.

## Required Reading

Linux - Chapters 1-3

## Instructions

For this assignment, you will need to log in to the Linux server, create some files, and execute a sequence of commands. You must hand in a transcript of your session as a text file generated by the script command.

Create a file called `words1.txt` consisting of the following words in the following order, each on its own line:

```
palindrome
avocado
tarantula
nettle
lemonade
development
avocado
farthing
```

Create a file called `words2.txt` consisting of the following words in the following order, each on its own line:

```
palindrome
tension
avocado
tarantula
xylophone
lemonade
development
avocado
javelina
godspeed
```

Once you have created these two files, use the `script` command to record the next part of your session.

Execute commands that do the following (in this order):

1. Display the contents of `words1.txt` immediately followed by the contents of `words2.txt` without any gap between them using a single command.
2. Compare the two files and display the differences between them.
3. Display the contents of `words1.txt` in sorted order.
4. Display the contents of `words2.txt` in sorted order.
5. Display the contents of `words1.txt` in sorted order without duplicates.
6. Display the contents of `words2.txt` in sorted order without duplicates.
7. Display the first four lines of `words1.txt`.
8. Display the last four lines of `words1.txt`.
9. Display the first four lines of `words1.txt` in sorted order.
10. Sort `words1.txt` and display the first four lines of the sorted results. (Note that this is asking for something different than problem 9.)

When you have executed all of these commands, type `exit` to exit the `script` program.

Your session should be captured in a file called `typescript`. This file will contain everything you typed including characters you deleted and the backspace characters that deleted them. To make this look better execute the following command with your actual last name substituted for `yourlastname`:

```
cat typescript > yourlastnameAssign1.txt
```

## Writing Text Files

The easiest way to create a text file on Linux is to use a text editor.

The simplest text editor available is probably `nano`, which can be started by typing `nano` at the command line.

You can then write the text file, type `CONTROL-o` to save it, and `CONTROL-x` to exit the program.

You can also open an existing file by typing `nano <filename>` at the command line (with the actual name of the file instead of `<filename>`.)

## What to Hand In

Download `yourlastnameAssign1.txt` to your local machine, then upload it to D2L in the dropbox labelled Assignment 1.