

CS246—Assignment 0

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Due: Thursday, September 19, 2013, 6pm

This assignment is designed to get you familiar with the most basic aspects of working with Linux, and with assignment submission. **It is not worth any marks, but you must get 100% on this assignment to get credit for the other assignments.**

1. Log into your `linux.student.cs` account and execute the command `ls`. You should see a directory entitled `cs246`. If you do not see this directory, create it via the command `mkdir cs246`.
2. Navigate to your `cs246` directory: `cd cs246`.
3. Verify that you are in your `cs246` directory: `pwd`.
4. Check out the course SVN repository:

```
svn co svn+ssh://linux.student.cs.uwaterloo.ca/u/cs246/pubrepo/1139
```

5. Verify that the checkout succeeded: `ls`. You should see a directory called `1139`.
(Parenthetical note: 1139 is Quest-speak for Fall 2013. The last digit is the month, and the first three digits, added to 1900, give the year.)
6. Navigate to the repository's assignment 0 directory: `cd 1139/a0`.
7. Once again, verify that you are in the correct directory: `pwd`.
8. Using a text editor (either `vi` or `emacs`), create the file `hello.txt`, with contents exactly as shown below:

```
Hello from Linux!  
I used vi.
```

If you used Emacs, replace `vi` above with `emacs`. You should press enter at the end of the first line, and at the end of the second line.

9. Using a text editor (either `vi` or `emacs`), create the text file `path1.txt` that contains the answer to the following question: if your current directory is `/u/jdoe/cs246/1139`, what relative path is equivalent to the absolute path `/u/jdoe/cs246/1139/lectures/c++/overload`? Make sure, as always, that your file ends with a newline character. Use `wc` to verify for yourself that your file consists of exactly one line.
10. Using a text editor (either `vi` or `emacs`), create the text file `path2.txt` that contains the answer to the following question: if your current directory is `/u/jdoe/cs246/1139`, what relative path is equivalent to the absolute path `/u/jdoe/cs245/a1`? Make sure, as always, that your file ends with a newline character. Use `wc` to verify for yourself that your file consists of exactly one line.
11. Read the manual page for the `wc` command: `man wc`.

12. Use `wc` to count the number of *words* in your file `hello.txt`, and use output redirection to store the result in the file `hellolines.txt`.
13. Make a zip file containing all of the files in your `a0` directory: `zip a0.zip *` — make sure you are in your `cs246/1139/a0` directory when you do this.
14. Read the document on the course website about submitting assignments to Marmoset:

`http://www.student.cs.uwaterloo.ca/~cs241/w3m`

15. Submit the file `a0.zip` to Marmoset.