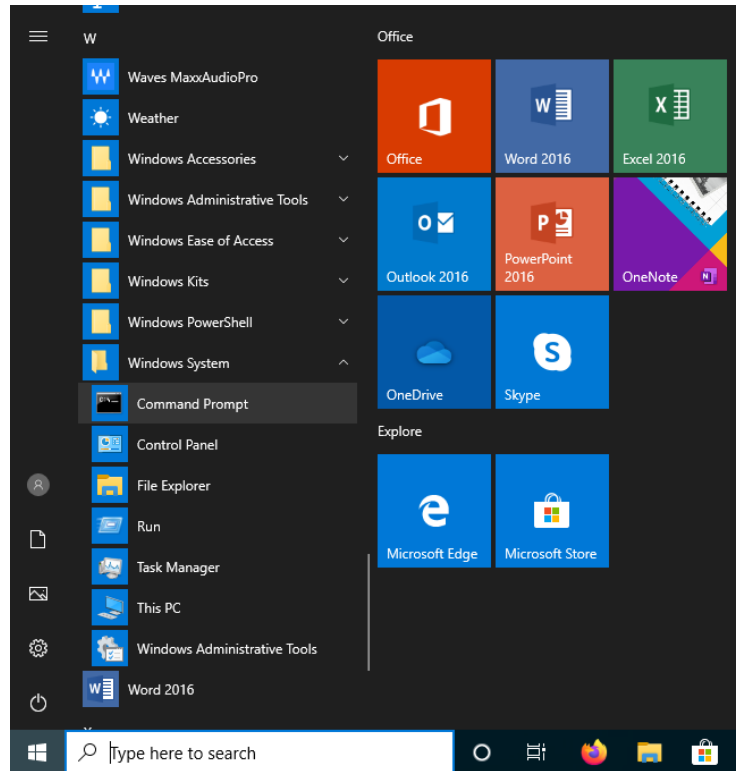
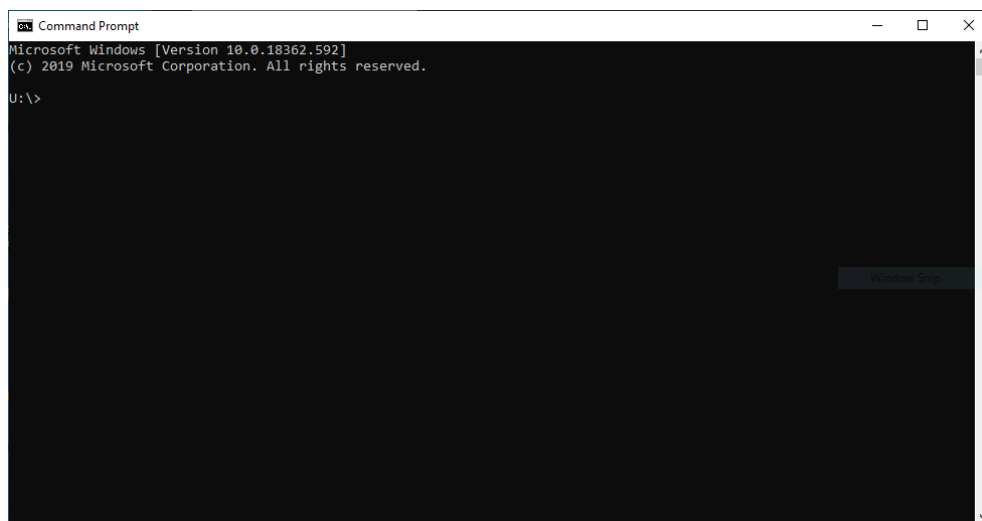


# Logging in to the Linux servers from Windows via SSH

1. Open a Command Prompt You can find this by looking through your start menu
  - (a) Find the folder called Windows System, open it.
  - (b) Click on Command Prompt



Alternatively, search for Command Prompt. Once you have it open, it should look like this:



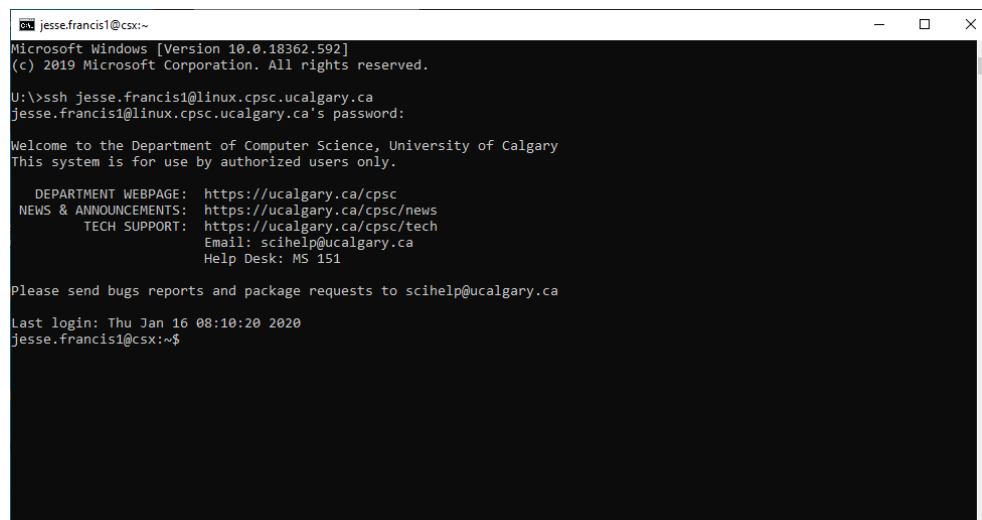
2. Type `ssh <cpsc username>@linux.cpsc.ucalgary.ca` in the command prompt and hit enter.

i.e., `ssh jesse.francis1@linux.cpsc.ucalgary.ca`

- (a) If it says that the authenticity of the host can't be established, type `yes` and hit enter to continue connecting.

3. Enter your password when asked.

- You should now be connected to the linux server.



```
jesse.francis1@cscx:~
Microsoft Windows [Version 10.0.18362.592]
(c) 2019 Microsoft Corporation. All rights reserved.

U:\>ssh jesse.francis1@linux.cpsc.ucalgary.ca
jesse.francis1@linux.cpsc.ucalgary.ca's password:

Welcome to the Department of Computer Science, University of Calgary
This system is for use by authorized users only.

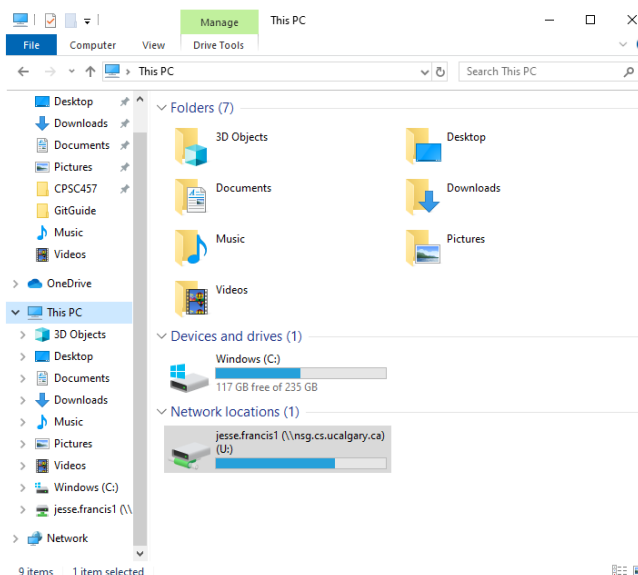
  DEPARTMENT WEBPAGE: https://ucalgary.ca/cpsc
  NEWS & ANNOUNCEMENTS: https://ucalgary.ca/cpsc/news
  TECH SUPPORT:      https://ucalgary.ca/cpsc/tech
                    Email: scihelp@ucalgary.ca
                    Help Desk: MS 151

Please send bugs reports and package requests to scihelp@ucalgary.ca

Last login: Thu Jan 16 08:10:20 2020
jesse.francis1@cscx:~$
```

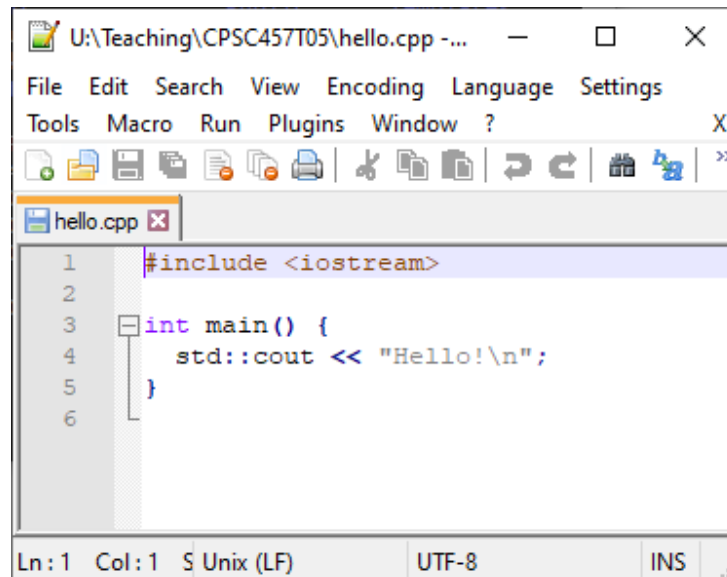
## Editing Code in Windows

1. Find your network drive



2. Use your favorite editor to create a .cpp file and save it somewhere in your network drive. (U: drive for me)

i.e., U:\Teaching\CPSC457T05\hello.cpp



The screenshot shows a text editor window titled "U:\Teaching\CPSC457T05\hello.cpp -...". The menu bar includes File, Edit, Search, View, Encoding, Language, Settings, Tools, Macro, Run, Plugins, Window, and ?. The toolbar contains icons for file operations and editing. The editor displays the following C++ code:

```
1 #include <iostream>
2
3 int main() {
4     std::cout << "Hello!\n";
5 }
6
```

The status bar at the bottom indicates "Ln: 1 Col: 1 S Unix (LF) UTF-8 INS".

## Compiling code in Linux

1. Go back to the command prompt window you used to SSH, and then cd to the folder where you saved your .cpp file.

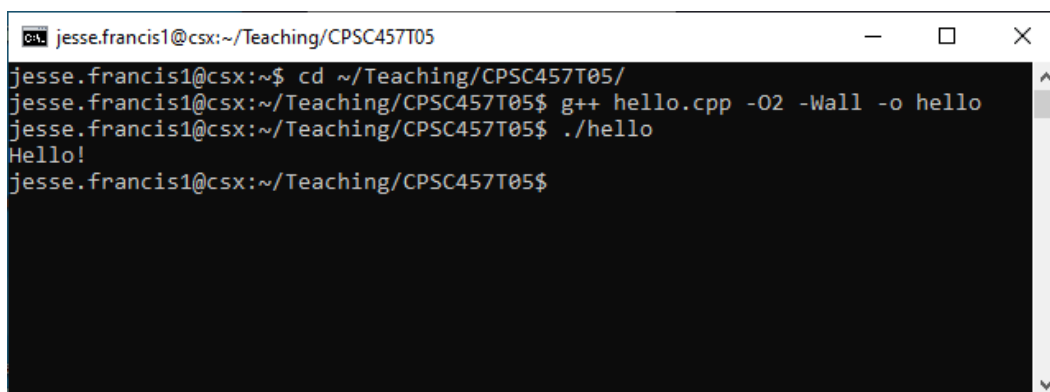
i.e., cd ~/Teaching/CPSC457T05/

2. Run `g++ <in file> -O2 -Wall -o <out name>`

i.e., `g++ hello.cpp -O2 -Wall -o hello`

3. Run the program with `./<out name>`

i.e., `./hello`



The screenshot shows a terminal window with the following commands and output:

```
jesse.francis1@csx:~/Teaching/CPSC457T05
jesse.francis1@csx:~$ cd ~/Teaching/CPSC457T05/
jesse.francis1@csx:~/Teaching/CPSC457T05$ g++ hello.cpp -O2 -Wall -o hello
jesse.francis1@csx:~/Teaching/CPSC457T05$ ./hello
Hello!
jesse.francis1@csx:~/Teaching/CPSC457T05$
```