COMP 2560 Winter 2024— Lab 4

This lab consists of 3 parts.

Part 1:

This part shows how you can transfer files between your local PC to and from the CS server. Imagine you worked on the CS server for your lab or assignment and finished it. It is now time to submit the required files to Brightspace and you face the problem of transferring the files from the CS server to your laptop and then submit. There are at least two methods.

Method 1: Use Bitvise
Login to delta.cs.uwindsor.ca (CS server) using Bitvise, then click the circled icon in the screenshot below.
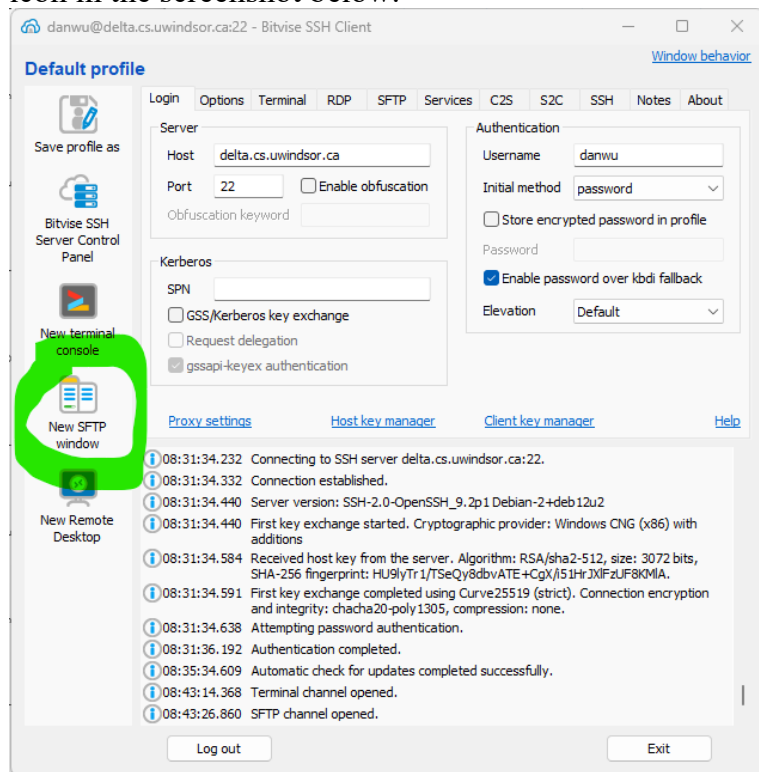


You will then the screenshot below.
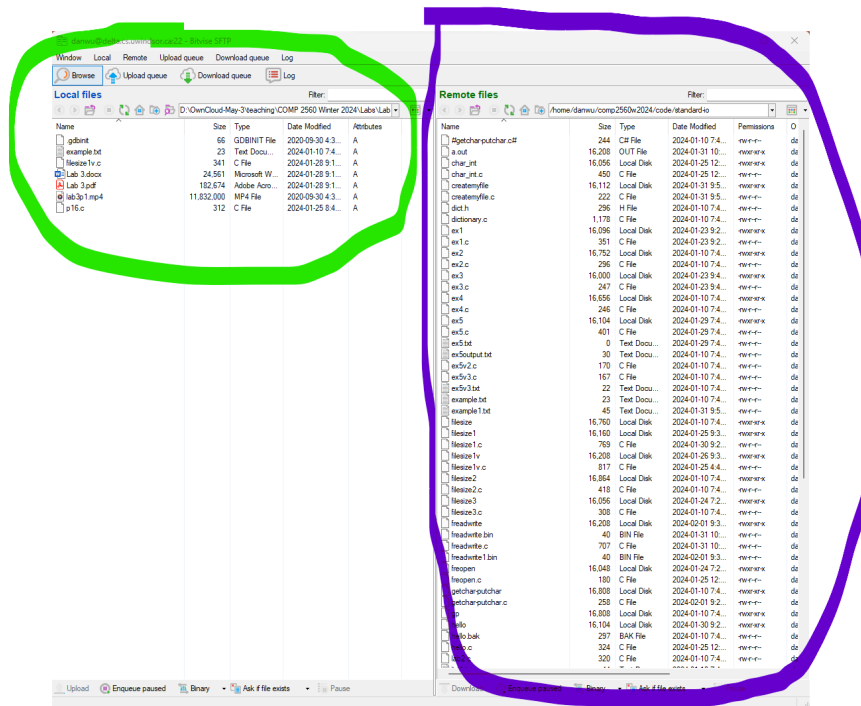
On the left-hand side (green), are folders and files <u>on your local PC</u>, and on the right-hand side(blue), are directories (folders) and files <u>on the CS server</u>.

You can now navigate to any folder (directory) and copy/move/drag files between the CS server and your local PC. Once the files are on your local PC, you can then submit them.

You can watch [this video](#) from 2m:07s to 3m:10s.

<u>Method 2</u>: use NoMachine from within a Web browser.
We previously showed you in Lab 1 that you can access the CS server from within a web browser by connecting to http://nx.cs.uwindsor.ca/, once connected, you can launch the Chrome browser on the CS server, and log in to your BrightSpace account, then navigate to the lab/assignment submission page for this course, and you can then choose the files to submit. See the screenshots below.
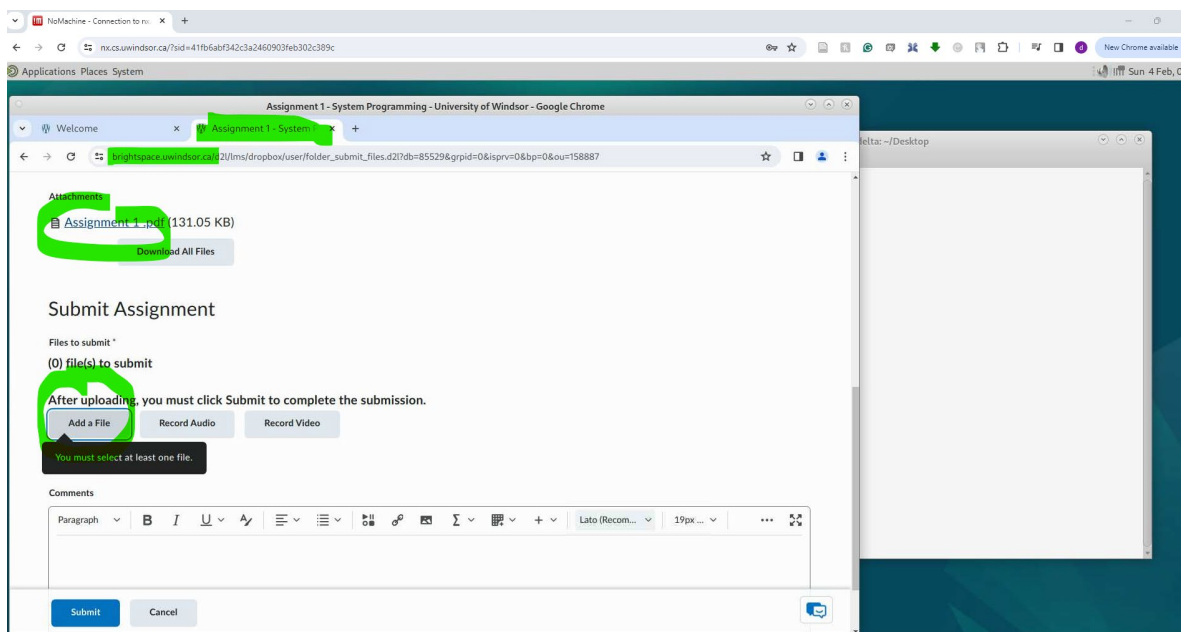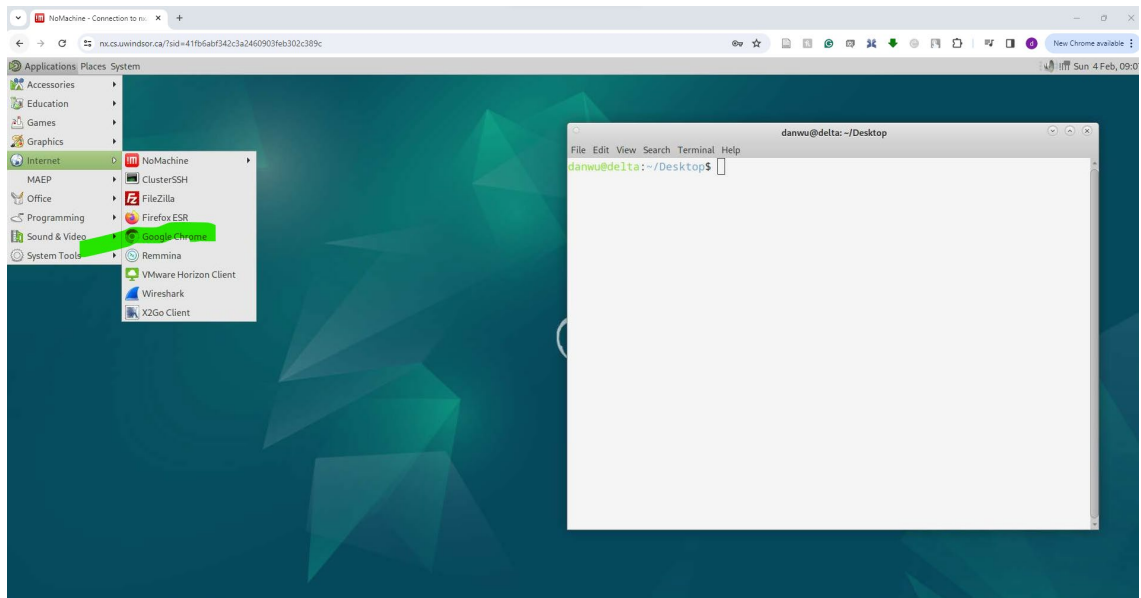
No submission required for this part and it is for information purposes only.

Part 2:

We mentioned quite a few times that in some of the sample code discussed in class for checking the end-of-file condition, we used a code segment similar to the one below

```c
while ((c=getc(inf)) != EOF)
{
        putc(c, outf);
}
```

I emphasized that this is not the best way to check if we have reached the end of a

file unless you are sure 100% there are no read/write errors. Do your research (textbook Ch. 5.6) and **modify the "mycopy.c"** program so that you have a proper check on the end-of-file condition. Put comments in your code.

Submit your source code and the script files (learned in Part 1 in Lab 2) at the end of your lab session. This is the only chance to submit for Part 2, which means you need to complete it during your lab session without losing marks. Please write down your lab section number in the submission.

Part 3:

We briefly talked about the "ex5.c" code in class and it has one problem. Download this code, study what it is supposed to do, and then run it, instead of pressing Ctrl+d (to generate EOF to exit the while loop), press Ctrl+c while running this program to abnormally terminate it to see what happens.

Write a short **txt file** to explain (a) what this program is supposed to do, and (b) describe your observations when pressing ctrl+d and ctrl+c, respectively. (c) what the problem is for this code when you press ctrl+c.

Now study the setvbuf(…) function (in Ch5.4) and use the setvbuf(…) function to fix the problem in this code.

Submit the txt file, source code of your modified ex5,.c using the setvbuf(…) function, the script files (learned in Part 1 in Lab 2) running your modified ex5 code, and a short video explaining your code before 11: 59 PM, Feb. 11.