

**CPSC 526**

**Assignment 2**

**Tutorial: T01**

**Name: Artin Rezaee-Anzabee**

**ID: 10121269**

**Partner: Sam Ao**

## Running the program:

The program can be run by: `python3 server.py <port>`

To connect to server, open a new terminal and write: `nc localhost <port>`

Server will bind to the user specified port and start listening for commands

## Connecting to server and handshake details:

The server requires the correct password to be inputted upon connection.

The password to the server is: password

When connected, the server will listen for commands

The server will close the connection if the entered password is incorrect

## Server behaviour:

Server will listen for a client to connect to it. Once there is a client, the server will queue other clients and will not respond till the current client is done.

The server will request a password and on correct credentials will allow the user to enter certain supported commands.

If the user logs out, the server will keep listening for new clients.

If the user logs back in, user's snap information is remembered by the server.

Once the server is terminated using "off" command, the server will shut down and will automatically delete user's info.

The server will give feedbacks upon each command. These commands are colour coded as follows:

- Operations: Green: successful/Red: failed
- Feedback: Blue
- Prompts and info: Bold

## Supported command:

Commands supported by the server are:

- `pwd`
- `cd <dir>`
- `ls`
- `cp <file1> <file2>`
- `mv <file1> <file2>`
- `rm <file>`
- `cat <file>`
- `snap`
- `diff`
- `help [cmd]`
- `logout`
- `off`
- `net`
- `ps`