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Steps to run the server program

1. Type the command “python lab3server.py” on the terminal/command line
2. A simple server Gui will be opened and all the output messages will be displayed on it

Steps to run the client program

1. Open a three terminal/command prompt windows
2. On the first terminal/command prompt window type the command “python3.7 lab3cli1.py” to start the first client.
3. On the second terminal/command prompt window type the command “python3.7 lab3cli2.py” to start the second client
4. On the third terminal/command prompt window type the command “python3.7 lab3cli3.py” to start the third client
5. Then on the Gui of each client enter the sequence of operations and press start to start the client it will connect with the server and will upload the username
6. There is a close button on the each client’s Gui which ‘ll close the the client
7. After the response is received from the server the response message will be displayed on the Gui.
8. Then the initial value is change logged in the log file named client(1,2,3).txt as well as the the sequence is also logged in to the txt file.

References:

For mutual exclusion

https://www.youtube.com/watch?v=0zaPs8OtyKY

For http post function

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For the multithreading ThreadMixIn class

https://docs.python.org/2/library/socketserver.html

https://stackoverflow.com/questions/14088294/multithreaded-web-server-in-python

For Gui scrollbar

https://stackoverflow.com/questions/40526496/vertical-scrollbar-for-frame-in-tkinter-python

For queue implementation

https://stackoverflow.com/questions/45688871/implementing-an-efficient-queue-in-python

For http.client library

https://docs.python.org/3/library/http.client.html

For socket connections

https://www.journaldev.com/19213/python-http-client-request-get-post