First to run my program type make navigate to the correct directory then type make. To run type make run or if you would like to use a custom port and dictionary type ./lab3 port# dictionary. If you type in a custom port you must type in a custom dictionary. The custom port is 8080 and the custom dictionary is words.txt. To connect to my server, open a separate terminal and type telnet localhost port#.

Some problems I ran into during this project dealt mainly with sockets and condition variables. I ran into problems with sockets because I previously have not felt with sockets so I had to teach myself how to use them which caused problems int he beginning but after reading tutorials and practicing I learned how to do it. I ran into problems with condition variables because I haven’t used them previously either so It took me a little before I got that working. One other problem I ran into was writing to a log file. I was trying to reopen and close it every time I write to it which caused problems in memory. I solved this by opening the file in my main thread and closing it with my main thread. This solved my problem because I was only opening it one time rather then multiple times.

Below are screenshots of me running my program and a picture of my log file after. I am running two different clients connected to my server. :





