CS 4375

Professor Ward

**Sockets Assignment 3**

Improve your chatbot client so that it reports response delays. For example,

client: you entered: I am a CS major

client: sent to server at 11:01:22

client: at 11:01:23 waiting for response, 1 second has elapsed

client: at 11:01:24 waiting for response, 2 seconds have elapsed

client: at 11:01:25 waiting for response, 3 seconds have elapsed

client: server localhost replied at 11:01:25: excellent, I love CS majors

First prepare your testbed. Simulate network delays by adding to your server the line

time.sleep(int(4\*random.random()))

before every send. Do not otherwise change your server. Now modify your client so that it reports delays. Submit the code for both server and client, and a brief report with sample output showing that your client handles both high-delay and low-delay responses.

Hint: consider using a non-blocking socket.

Due March 8 (est. 1 hour)

**Sockets Assignment 4**

Find a partner. Get their chatbot client and server code. Test their chatbot client with your chatbot server.

* If it doesn't work, document the problem and fix it.
* It it does work, test their server with your client, and document and fix any problems.
* If neither is possible (perhaps because your partner didn't get their code running, or you and your partner used the exact same protocol), instead do the assignment using one of the exemplar clients or servers that will be provided.

Write a report, including a description of the main problem and how you fixed it, plus evidence that in the end you got the parts to work together. Submit the report, the client code, and the server code.

If possible, work together and submit a joint report.

Due March 13 (est. 2 hours)