INTERNET TECHNOLOGY PROJECT 1 REPORT

1) Team Details: Kerimcan Baba kb900   (Did everything alone)
2) Collaboration: Did not collaborate with anyone. Only used recitation slides, and my prior python knowledge.
3) The program worked instantly and the delay between messages was gone. I saw that because time.sleep() was deleted from the code, so time.sleep() was delaying the execution of the program by a few seconds.
4) I have printed the output for step 3 in the terminal as it was allowed in the first question of Project 1 FAQ announcement.
5) I have named them properly and double checked the file names.
6) Everything was tested on iLab and works perfectly fine.
7) Yes, I spent around 6-7 hours trying to fix the reversing string part, as I couldn't figure out reversing line by line, and just reversed the whole thing at once which was different from the sample output that I was supposed to get. I have tried hundreds of different pieces of code before managing to reverse it line by line using the combination of join, [::-1], and split at once for the newlines. Figuring out that one line of code took me two times longer than doing the rest of the program.
8) I learned trying to send certain object types over socket (lists/tuples) does not work properly, as most of the common methods of trying to split the lines in client then sending them one by one required using something like a list or tuple, which the terminal gave me errors about. I also tried readlines method, which did not work with the encoded message directly of course, so I tried writing the encoded message in the output file, then tried using readlines and a few other methods and looping through words to somehow achieve a proper line by line reversal, and overwriting the output file, which did not work, so I learned not to do something like that for the next projects.