For week 4 lab, in the first exercise, I ran into an issue where the prompt would print in the same thread as the enter message. To fix this I can use a lock, to synchronize the print statements and ensure that the input prompt appears correctly.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

PS C:\Users\Marzhan\OneDrive\Desktop\University\Computer Science year 2\Semester 2\Networks and 0S\Week 4 lab> & C:/Users/Marzhan/AppData/Local/Networks ty/Computer Science year 2/Semester 2/Networks and 0S/Week 4 lab/Exercise_1.py"

UP Chat Server is running...

Enter message: hi there

Received from ('127.0.0.1', 61526): hi there

Enter message: how are you

Enter message: Received from ('127.0.0.1', 61526): how are you

im good

Received from ('127.0.0.1', 61526): im good

Enter message: s

Received from ('127.0.0.1', 61526): s

Enter message: s
```

I tweaked the code so that I can use a "print\_lock" to ensure that the print statements from different threads do not interfere with each other.

```
PS C:\Users\Marzhan\OneDrive\Desktop\University\Computer Science year 2\Semester 2\Networks ktop/University/Computer Science year 2/Semester 2/Networks and OS/Week 4 lab/Exercise_1.py UDP Chat Server is running...

Enter message: hello
Received from ('127.0.0.1', 62921): hello
Enter message: how are you today
Received from ('127.0.0.1', 62921): how are you today
Enter message: I'm doing great thanks
Received from ('127.0.0.1', 62921): I'm doing great thanks
Enter message:
```