Computer Networks

Computer Assignment

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Sample of code running:

Client side

```
b"You are connected from:('127.0.0.1', 9090)"
Enter your user name(prefix with #):#siavash
Your user detail saved as : siavash
What do you want to do? 1:list 2:send 3:receive 4:
                                                                                                                                                                                        (venv) C:\Users\Siavash\PycharmProjects\CN_CA>client.py
Enter your port number : 7070
b"You are connected from:('127.0.0.1', 7070)"
                                                                                         Enter your user name(prefix with #):#ali
List of users : ['siavash', 'ali', 'reza']
What do you want to do? 1:list 2:send 3:receive 4:
                                                                                                                                                                                       Enter your user name(prefix with #):#reza
Your user detail saved as : reza
What do you want to do? 1:List 2:send 3:receive 4:exit 1
List of users : ['siavash', 'ali', 'reza']
What do you want to do? 1:List 2:send 3:receive 4:exit 1
List of users : ['siavash', 'ali', 'reza']
What do you want to do? 1:List 2:send 3:receive 4:exit 2
Send your message in format [@user:message] @siavash:salam
                                                                                         Enter your port number : 8080
 Command unknowr
                                                                                         Enter your user name(prefix with #):#ali
                                                                                         Your user detail saved as : ali
What do you want to do? 1:list 2:send 3:receive 4:exit
                                                                                         What do you want to do? 1:list 2:send 3:receive 4:exit
                                                                                         What do you want to do? 1:list 2:send 3:receive 4:exit 1
List of users : ['siavash', 'ali', 'reza']
What do you want to do? 1:list 2:send 3:receive 4:exit 1
List of users : ['siavash', 'ali', 'reza']
What do you want to do? 1:list 2:send 3:receive 4:
exit 1
                                                                                         User not found
What do you want to do? 1:list 2:send 3:receive 4:exit
List of users : ['siavash', 'ali', 'reza']
What do you want to do? 1:list 2:send 3:receive 4:
                                                                                         What do you want to do? 1:list 2:send 3:receive 4:exit
                                                                                                                                                                                         Send your message in format [Quser:message] Qali:berim baz
salam khoobi?
                                                                                        List of users : ['siavash', 'ali', 'reza']
What do you want to do? 1:list 2:send 3:receive 4:exit
                                                                                                                                                                                        What do you want to do? 1:list 2:send 3:receive 4:exit 1
List of users : ['reza']
List of users : ['siavash', 'reza']
What do you want to do? 1:list 2:send 3:receive 4:
exit 2
```

Server side

```
(venv) C:\Users\Siavash\PycharmProjects\CN_CA>server.py
User siavash added.
('siavash': <socket.socket fd=540, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 9090)>}
this is connect

<socket.socket fd=540, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 9090)>
User ali added.
('siavash': <socket.socket fd=540, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 9090)>, 'ali': <socket.socket fd=552, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 8080)>}
this is connect

<socket.socket fd=552, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 9000)>, 'ali': <socket.socket fd=552, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 9000), 'reza': <socket.socket fd=5540, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 7070)>}
this is connect

<socket.socket fd=556, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 7070)>
this is connect

<socket.socket fd=556, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 7070)>
this is connect

<socket.socket fd=556, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 7070)>
this is connect

<socket.socket fd=556, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 7070)>
this is connect

<socket.socket fd=556, family=AddressFamily.AF_INET, type=SocketKind.SOCK_STREAM, proto=0, laddr=('127.0.0.1', 9000), raddr=('127.0.0.1', 7070)>
this is connect
```