Homework-I

Socket Programming

A stream-based messaging service

• During connection, the client and the server repeat the following operations several times until the user presses 'bye\n'

[Client]

- The Client process stores the messages from the user in queue, until the user presses 'Q\n'.
- When receiving 'Q\n', the client sends 'SEND', the queued messages, and 'RECV'

[Server]

- When the sever receives 'SEND', it queues the messages until receiving 'RECV'.
- When receiving 'RECV', the server process sends all received messages orderly to the client
- When the user presses 'bye\n', the client sends 'Echo_CLOSE' to the server.
- When receiving 'Echo_CLOSE', the server replies with `Echo_CLOSE' and closes the connection with the corresponding client.
- The client that has received 'Echo_CLOSE' closes the connection.

