Testcase	Pass/Fai
Testcase 2001	pass
Server startup check with default arguments	•
Instructions:	
1. Start the server program	
Expected result:	
1. The server reports that it is listening for clients by displaying the following	
message:	
Server listening for clients on port 5555	
2. The server console waits for user input.	
Cleanup:	
Terminate the server program.	
Testcase 2002	pass
Client startup check without a login	
Instructions:	
1. Start the Client program without specifying the loginID as an argument.	
Expected result:	
1. The client reports it cannot connect without a login by displaying:	
ERROR - No login ID specified. Connection aborted.	
2. The client terminates.	
Cleanup: (if client is still active)	
Terminate the client program.	
Testcase 2003	pass
Client startup check with a login and without a server	
Instructions:	
 Start the Client program while specifying loginID as an argument. 	
Expected result:	
1. The client reports it cannot connect to a server by displaying:	
ERROR - Can't setup connection! Terminating client.	
2. The client terminates.	
Cleanup: (if client is still active)	
Terminate the client program.	
Testcase 2004	pass
Client connection with default arguments	
Instructions:	
1. Start a server (Testcase 2001, instruction 1)	
2. Start a client (Testcase 2003, instruction 1)	
Expected results:	
The server displays the following messages in sequence:	
A new client has connected to the server.	
Message received: #login <loginid> from null.</loginid>	
<loginid> has logged on.</loginid>	
Note: the server specifies that it received a message from null as this is the first	
message received from this client. It will record the loginID of this client for later	
messages. Hence, for later messages, it should display:	
Message received: <user input=""> from <loginid></loginid></user>	

Testcase	Pass/Fai
Where <user input=""> is the content of the message received and <loginid> is the</loginid></user>	
loginID of the sending client.	
2. The client displays message:	
<loginid> has logged on.</loginid>	
3. The client and the server wait for user input.	
Cleanup: (unless proceeding to Testcase 2005)	
Terminate the client program.	
Terminate the server program.	
Testcase 2005	pass
Client Data transfer and data echo	
Instructions:	
1. Start a server and a client using default arguments (Testcase 2004 instructions).	
2. Once connected, type in data on the client console and press ENTER.	
Expected results:	
1. The message is echoed on the client side, but is preceded by the sender's loginID	
and the greater than symbol (">").	
2. The server displays a message similar to the following:	
Message received: <user input=""> from <loginid></loginid></user>	
Cleanup:	
Terminate the client program.	
Terminate the server program.	
Terminate the server program.	
Testcase 2006	pass
Multiple local connections	
Instructions:	
1. Start a server and multiple clients with DIFFERENT loginIDs and connect them to	
the server using default arguments. (Testcase 2005 instructions).	
2. Start typing on all the client consoles AND the server console, pressing ENTER to	
send each message.	
Expected results:	
1. All client messages are echoed as in Testcase 2005.	
 All messages from the server console are echoed on the server console and to all 	
clients, but are preceded by "SERVER MESSAGE> ".	
• • • • • • • • • • • • • • • • • • • •	
Cleanup:	
Terminate the clients.	
Terminate the server program.	
Testcase 2007	pass
Server termination command check	
Instructions:	
Instructions: 1. Start a server (Testcase 2001 instruction 1) using default arguments.	
 Start a server (Testcase 2001 instruction 1) using default arguments. Type "#quit" into the server's console. 	
 Start a server (Testcase 2001 instruction 1) using default arguments. Type "#quit" into the server's console. Expected result:	

Testcase	Pass/Fai
Testcase 2008	pass
Server close command check	
Instructions:	
1. Start a server and connect a client to it. (Testcase 2004)	
2. Stop the server using the #stop command.	
3. Type "#close" into the server's console.	
Expected result:	
1. Server displays in sequence:	
Server has stopped listening for connections.	
<loginid> has disconnected.</loginid>	
2. The client displays:	
The server has shut down.	
3. The client terminates	
Cleanup:	
Terminate the client program.	
Terminate the server program.	
Testcase 2009	pass
Server restart	pass
Instructions:	
1. Start a server.	
2. Close the server using the #close command.	
3. Type "#start" into the server's console.	
4. Attempt to connect a client.	
Expected result:	
1. The server closes, restarts and then displays:	
Server listening for connections on port 5555.	
2. The client connects normally as described in Testcase 2004.	
Cleanup:	
Terminate the client program.	
Type #quit to kill the server.	
Testcase 2010	pass
Client termination command check	
Instructions:	
1. Start a server	
2. Connect a client.	
3. Type "#quit" into the client's console.	
Expected result:	
1. Client terminates.	
Cleanup: (If client is still active)	
Terminate the client program.	
Testcase 2011	pass
Client logoff check	
Instructions:	
1. Start a server (Testcase 1001, instruction 1), and then connect a single client to	
this server.	
2. Type "#logoff" into this client's console.	
Expected results:	

Testcase	Pass/Fail
 Client disconnects and displays Connection closed. 	
Cleanup:	
Type "#quit" to kill the client.	
Testcase 2012	pass
Starting a server on a non-default port	
Instructions:	
1. Start a server while specifying port 1234 as an argument.	
Expected result:	
1. The server displays	
Server listening for connections on port 1234.	
Cleanup:	
Type #quit to kill the server.	
Testcase 2013	pass
Connecting a client to a non-default port	
Instructions:	
1. Start a server on port 1234	
2. Start a client with the arguments: < loginID> < host> 1234	
(replace the parameters by appropriate values).	
Expected Result:	
The connection occurs normally.	