**CS3377.0W1 Week 10 Lab 3**

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**(Documentation with Terminal Log)**

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│ • MobaXterm 20.2 • │

│ (SSH client, X-server and networking tools) │

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│ → SSH session to dtp180003@cslinux1.utdallas.edu │

│ • SSH compression : v │

│ • SSH-browser : v │

│ • X11-forwarding : v (remote display is forwarded through SSH) │

│ • DISPLAY : v (automatically set on remote server) │

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│ → For more info, ctrl+click on help or visit our website │

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**1. check if port 3000 is free (it is not, but 3001 is free, modify echoServer and echoClient to use 3001)**

{cslinux1:~/cs3377/socket-prog} netstat -aont | grep "`hostname -i`:3000 "

tcp 7 0 129.110.92.15:3000 129.110.92.15:33896 CLOSE\_WAIT off (0.00/0/0)

{cslinux1:~/cs3377/socket-prog} netstat -aont | grep "`hostname -i`:3001 "

**2. start echoServer on port 3001**

{cslinux1:~/cs3377/socket-prog} gcc echoServer.c -o echoServer

{cslinux1:~/cs3377/socket-prog} ./echoServer &

[1] 38549

{cslinux1:~/cs3377/socket-prog} Server running...waiting for connections.

**3. send messages from echoClient**

{cslinux1:~/cs3377/socket-prog} ./echoClient

Usage: TCPClient <IP address of the server: Success

**4. use ps to find server pid and then kill it**

{cslinux1:~/cs3377/socket-prog} ps

PID TTY TIME CMD

37475 pts/4 00:00:00 bash

38723 pts/4 00:00:00 echoServer

39002 pts/4 00:00:00 ps

{cslinux1:~/cs3377/socket-prog} kill 38723

**5. use ps and netstat to ensure the server terminated**

{cslinux1:~/cs3377/socket-prog} ps

PID TTY TIME CMD

37475 pts/4 00:00:00 bash

39011 pts/4 00:00:00 ps

[1]- Terminated ./echoServer

{cslinux1:~/cs3377/socket-prog} netstat -aont | grep "`hostname -i`:3001 "

{cslinux1:~/cs3377/socket-prog}