Name: Ann Soong
Student Number: 300070709
Email: asoon014@uottawa.ca
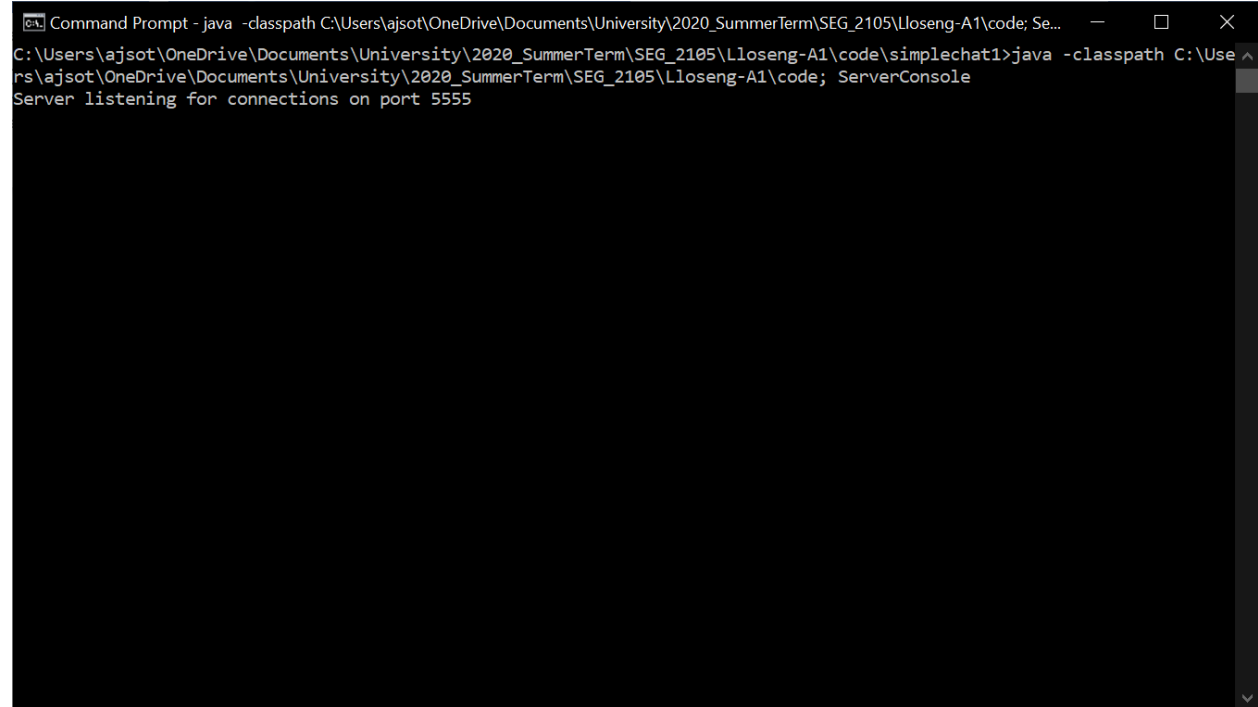

SEG 2105 - Summer 2020 - Assignment 1


Notes:

- Many of the test cases say to run EchoServer, however, only
  ServerConsole was programmed to read inputs from the console since it
  is the server UI. So, ServerConsole was used in the test cases instead.

- After running through the testcases, I realized that my interpretation
  of **#login** and **#login <login ID>** might have been different from others.
  In my program, #login <login ID> could only be automatically sent by
  the client; I interpreted E7b such that #login <login ID> is not a
  command the user can type themselves. The client can still use #login
  since their ID is saved, which will invoke the automatic message of
  #login <login ID> to the server. I do not believe that the instructions
  stated that the client should be able to change their ID.

- I am limited to 2 computers and they have the same platform.


Test Case Logs – Part 2:
System: Simple Chat

```
================================================================

Testcase 2001
System: Simple Chat                    Phase: 2 to 4
Server startup check with default arguments
Severity: 1
----------------------------------------------------------------
```
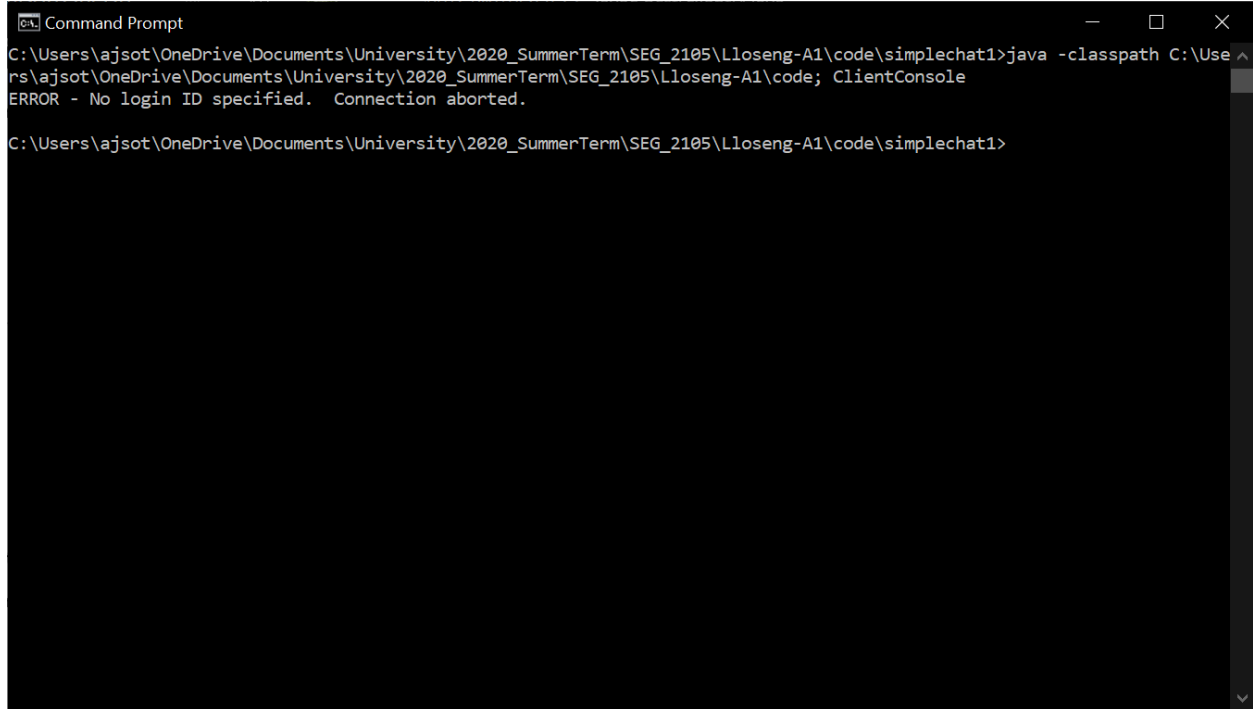
Result: Successful

```
===========================================================================

Testcase 2002
System: Simple Chat                    Phase: 2
Client startup check without a login
Severity: 1
---------------------------------------------------------------------------
```

Result: Successful

```
Command Prompt                                                    —    □    ✕

C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole
ERROR - No login ID specified.  Connection aborted.

C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>
```

```
==============================================================================

Testcase 2003
System: Simple Chat                    Phase: 2
Client startup check with a login and without a server
Severity: 1
------------------------------------------------------------------------------

Result: Successful
```
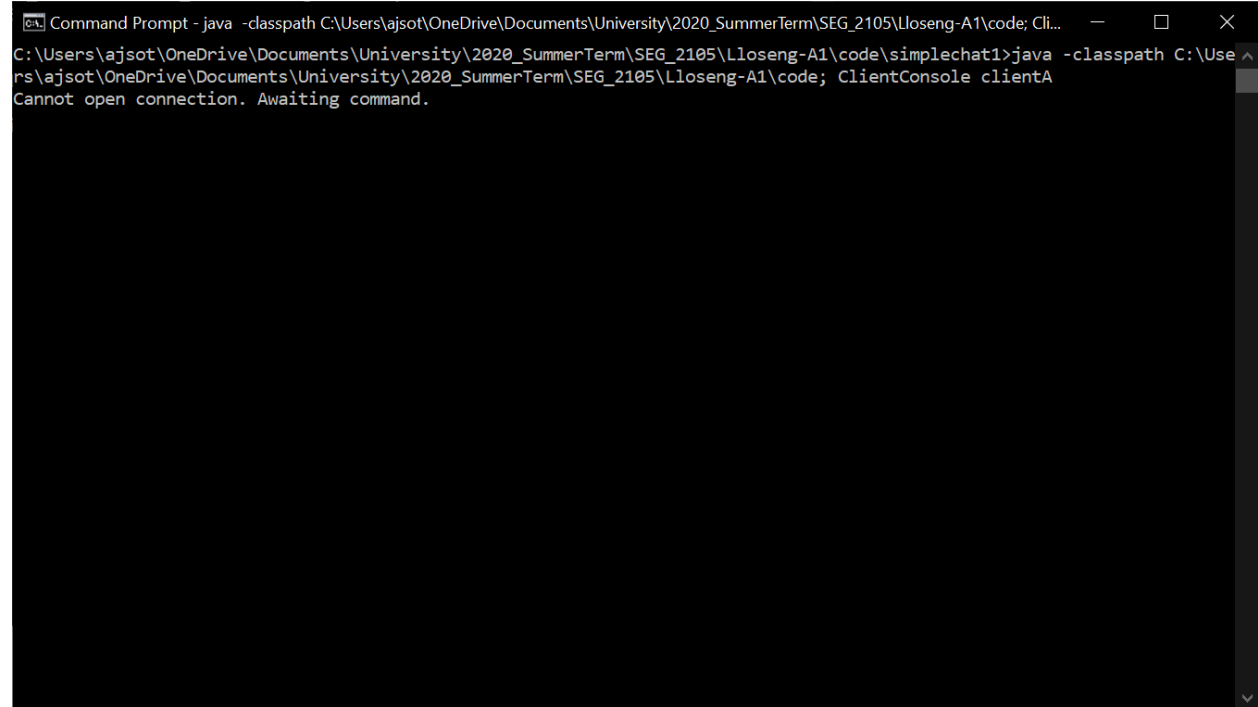
```
============================================================================

Testcase 2004
System: Simple Chat                        Phase: 2
Client connection with default arguments
Severity: 1
----------------------------------------------------------------------------
```
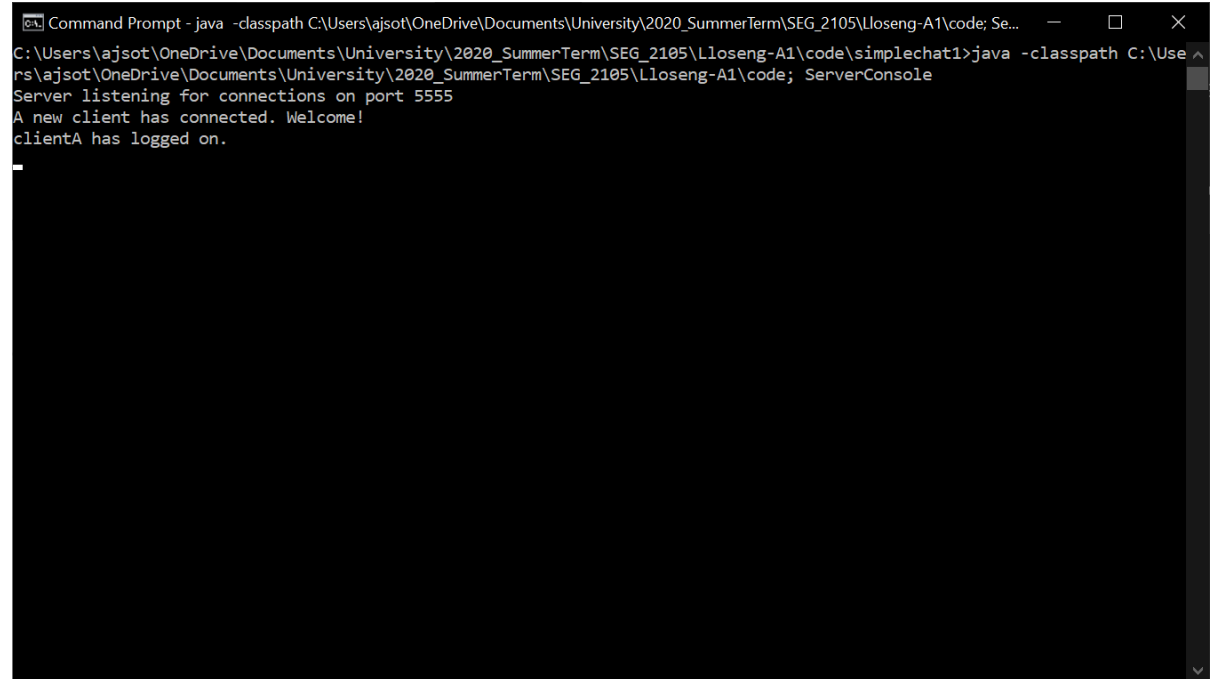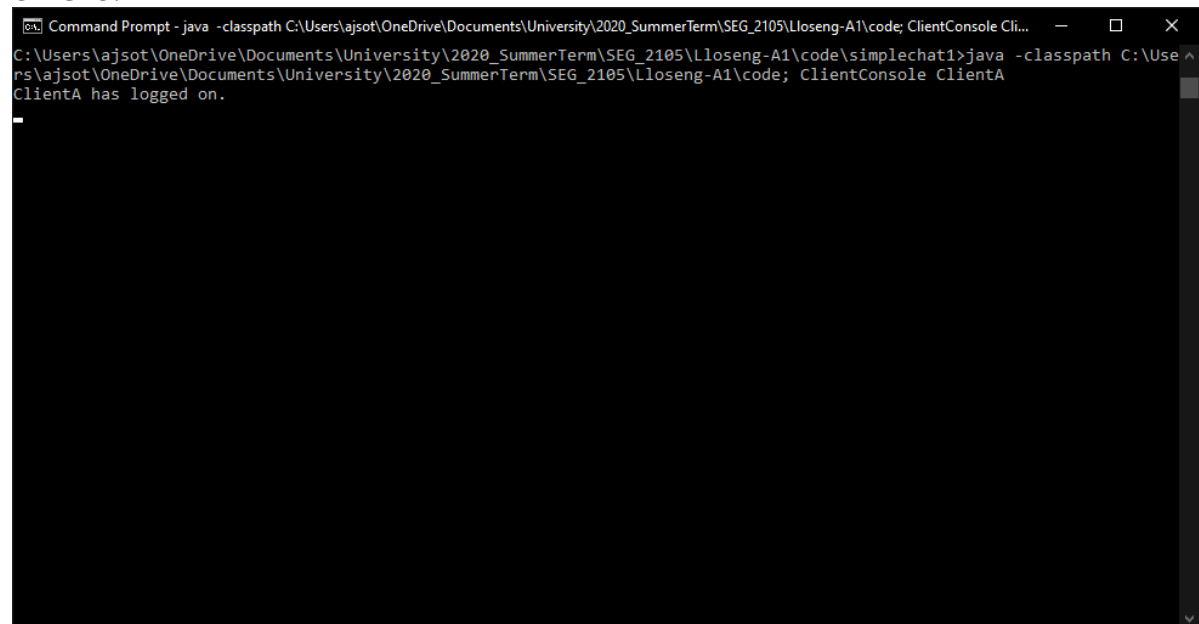
Result: Successful, similar but different text than specified. However, no
        message such as "Message received #login <loginID> from null."

Server:



Client:

```
==========================================================================

Testcase 2005
System: Simple Chat                    Phase: 2
Client Data transfer and data echo
Severity: 1
--------------------------------------------------------------------------

Result: Successful

Server:
```



```
Client:
```

```
================================================================

Testcase 2006
System: Simple Chat                         Phase: 2
Multiple local connections
Severity: 1
----------------------------------------------------------------
```

Result: Successful

Server:



Client 1:

Client 2:



```
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientB
ClientB has logged on.
SERVER MESSAGE> test message 1
ClientA> test message 2
test message 3
ClientB> test message 3
ClientC> test message 4
```

Client 3:



```
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientC
ClientC has logged on.
SERVER MESSAGE> test message 1
ClientA> test message 2
ClientB> test message 3
test message 4
ClientC> test message 4
```

```
================================================================================

Testcase 2007
System: Simple Chat                        Phase: 2 and subsequent
Server termination command check
Severity: 1
--------------------------------------------------------------------------------
```
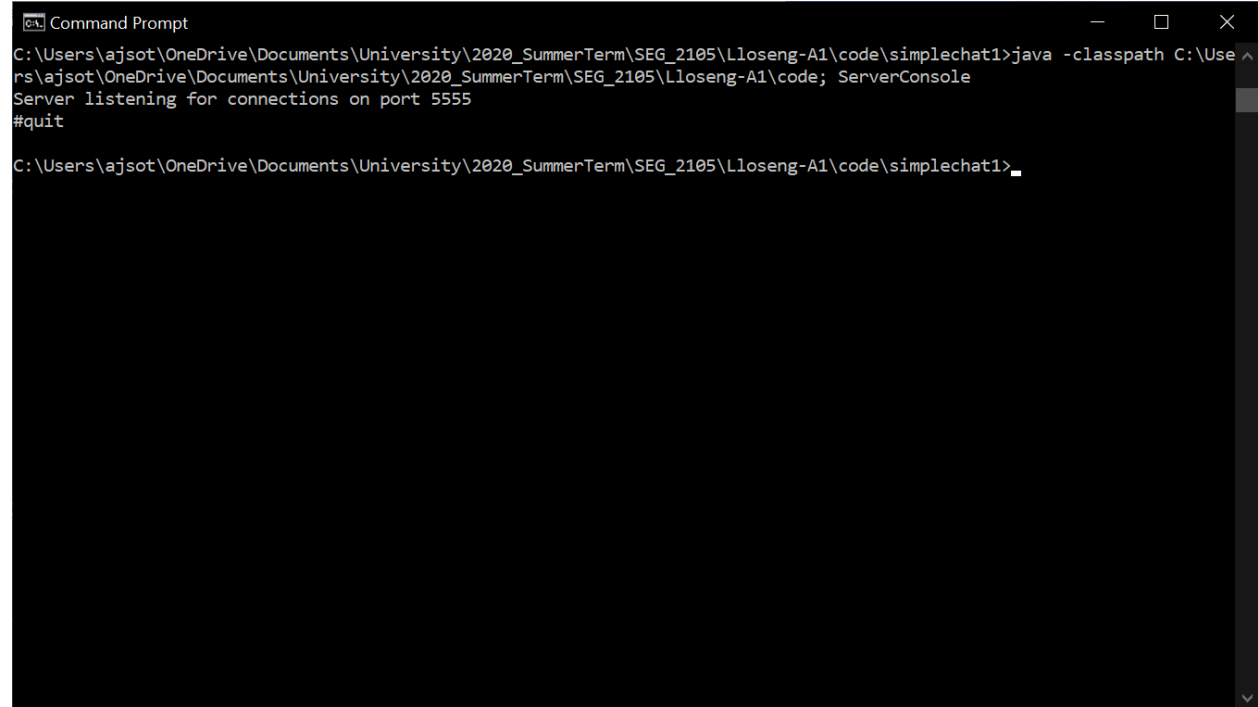
Result: Successful

```
================================================================================

Testcase 2008
System: Simple Chat                          Phase: 2 and 3
Server stop check
Severity: 2
--------------------------------------------------------------------------------
```

Result: Successful

Server: At step 5:



Server: At step 6:

Client 1:



```
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientA
ClientA has logged on.
WARNING - Server has stopped listening for connections.
a message
ClientA> a message
```

Client 2: At step 5:



```
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientB
```

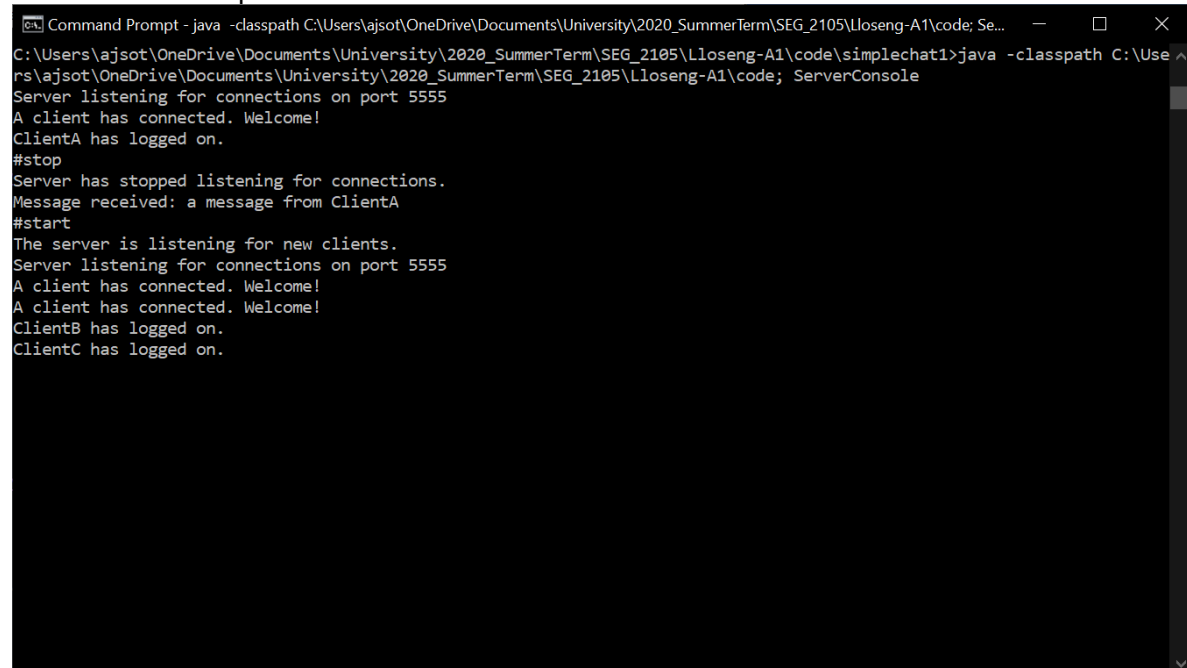Client 2: At step 6:



```
Command Prompt - java  -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole Cli...    —    □    ✕
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientB
ClientB has logged on.
```

Client 3: At step 5:



```
Command Prompt - java  -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; Cli...    —    □    ✕
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientC
```
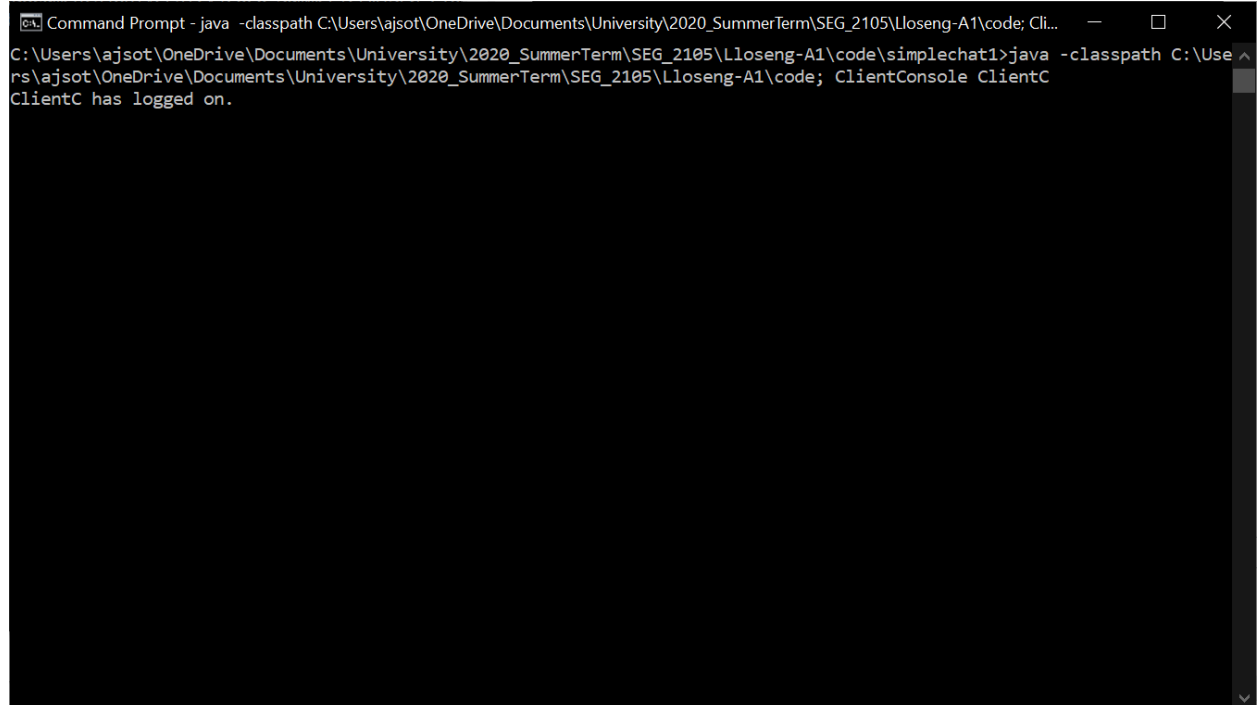
Client 3: At step 6:



Command Prompt - java  -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; Cli...

C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientC
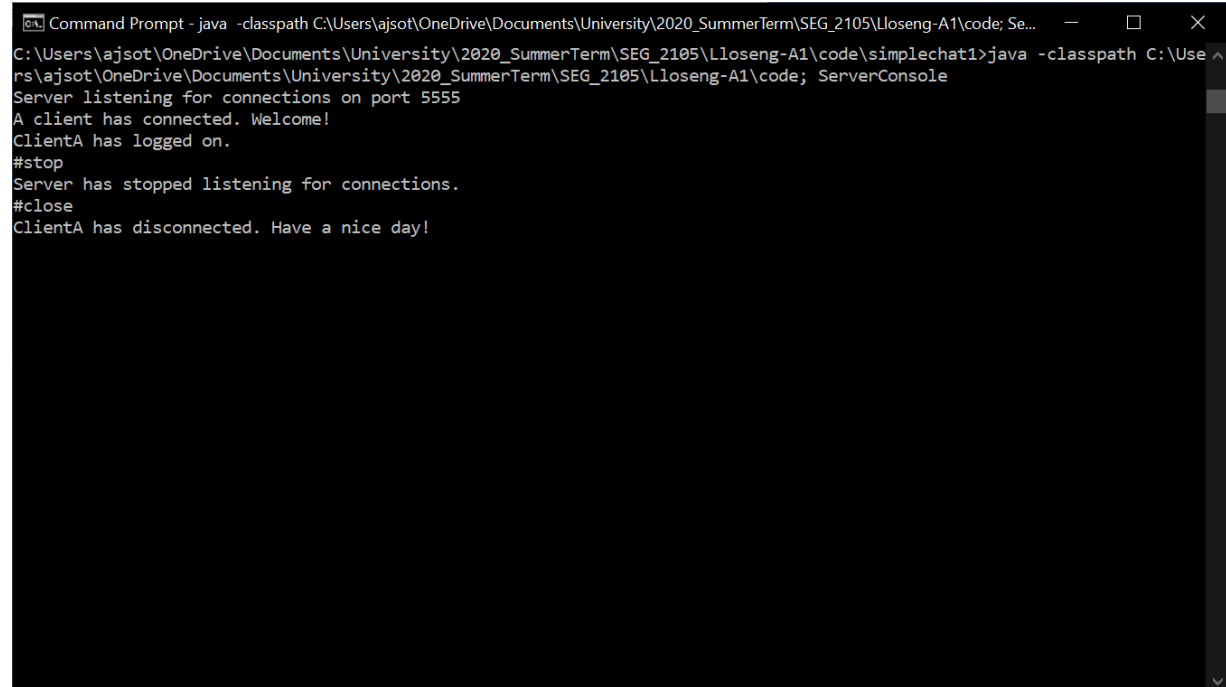ClientC has logged on.

```
==============================================================================

Testcase 2009
System: Simple Chat                    Phase: 2 and 3
Server close command check
Severity: 2
------------------------------------------------------------------------------

Result: Successful

Server:
```



```
Client:
```

```
================================================================================

Testcase 2009
System: Simple Chat                          Phase: 2 and subsequent
Server restart
Severity: 1
--------------------------------------------------------------------------------
```

Result: Fail. I looked through my code and was unable to find the reason why.

Server:



Client:
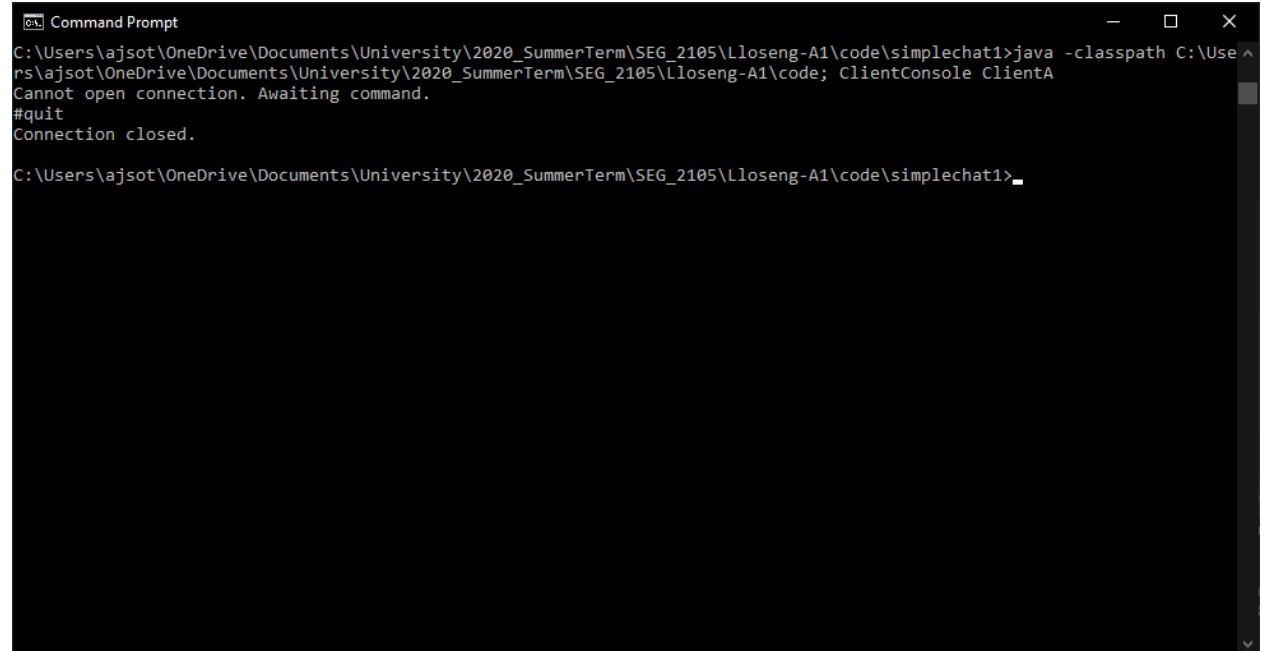
```
=============================================================================
Testcase 2010
System: Simple Chat                    Phase: 2 and subsequent
Client termination command check
Severity: 1
-----------------------------------------------------------------------------
```

Result: Step 1 says to use Testcase 2002, but I believe it should be Testcase
        2003. If 2003 is used, then the client may take console input and
        will successfully terminate when given #quit.

```
================================================================

Testcase 2011
System: Simple Chat                     Phase: 2 and subsequent
Client logoff check
Severity: 1
----------------------------------------------------------------
```

Result: Successful

Server:



Client:

```
===============================================================================

Testcase 2012
System: Simple Chat                    Phase: 2 and subsequent
Client host and port setup commands check
Severity: 1
-------------------------------------------------------------------------------
```

Result: Successful



Command Prompt - java  -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole Cli...

```
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientA
Cannot open connection. Awaiting command.
#sethost computer-name
Host set to: computer-name.
#setport 1234
Port set to: 1234.
```
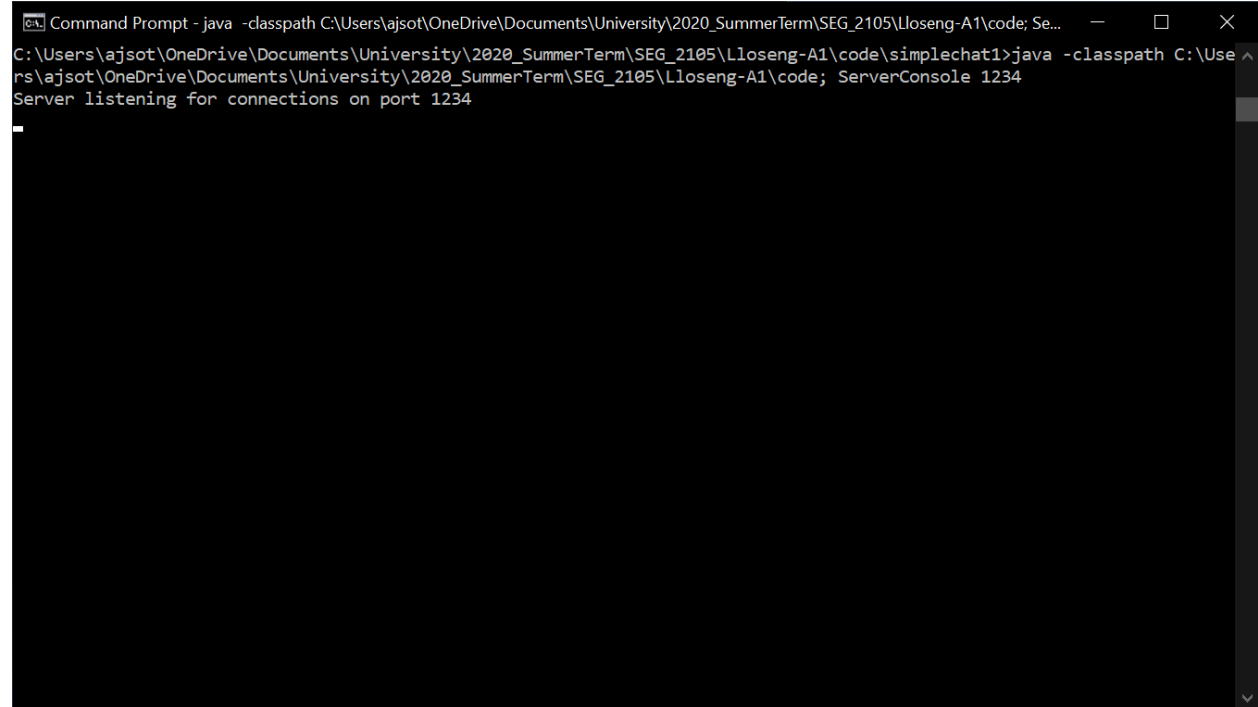
```
===============================================================================

Testcase 2013
System: Simple Chat                        Phase: 2 and subsequent
Starting a server on a non-default port
Severity: 1
-------------------------------------------------------------------------------
```

Result: Successful

```
===========================================================================

Testcase 2014
System: Simple Chat                    Phase: 2 and subsequent
Connecting a client to a non-default host or port
Severity: 1
---------------------------------------------------------------------------
```

Result: Successful

Server: (On DESKTOP-L329JDB)



Client: (On DESKTOP-4JC8OL4)

```
================================================================
Testcase 2015
System: Simple Chat                        Phase: 2
Multiple remote clients disconnections and reconnections
Severity: 1
----------------------------------------------------------------
```

Result: I performed the Testcase using 2 computers, because I don't have more
computers. Expected Result 7 states that the clients should
disconnect. My program used EchoServer.close() which forces the
clients to close, so they will display "Abnormal termination of
connection." because it was forced.
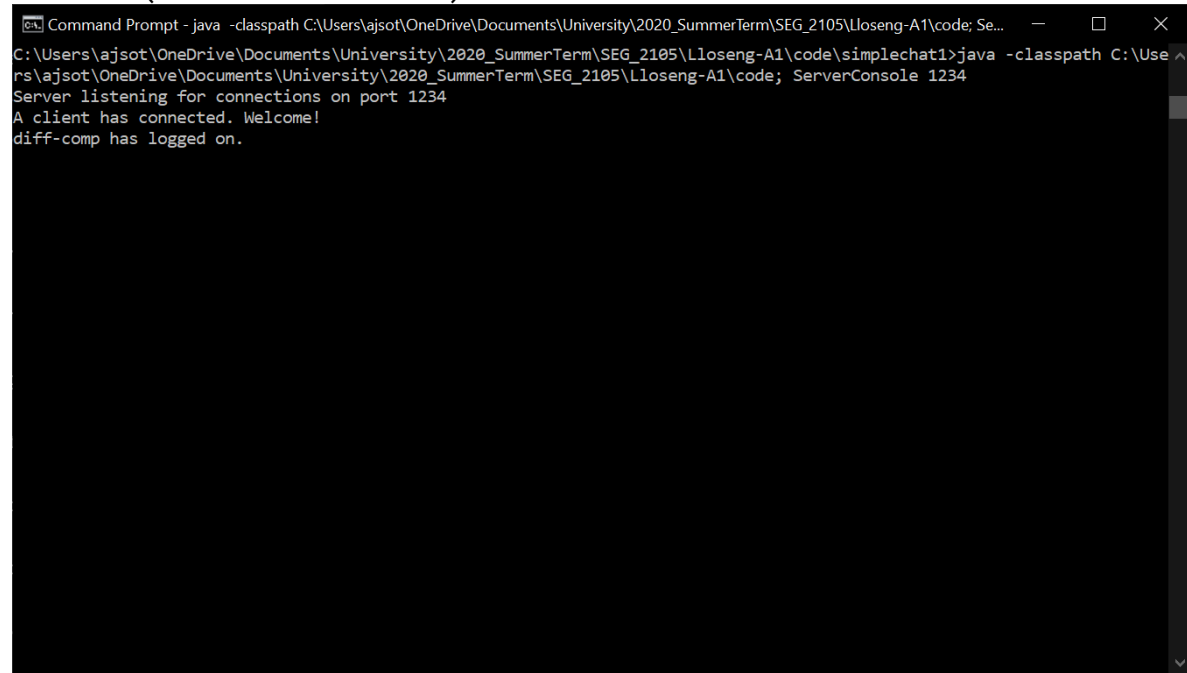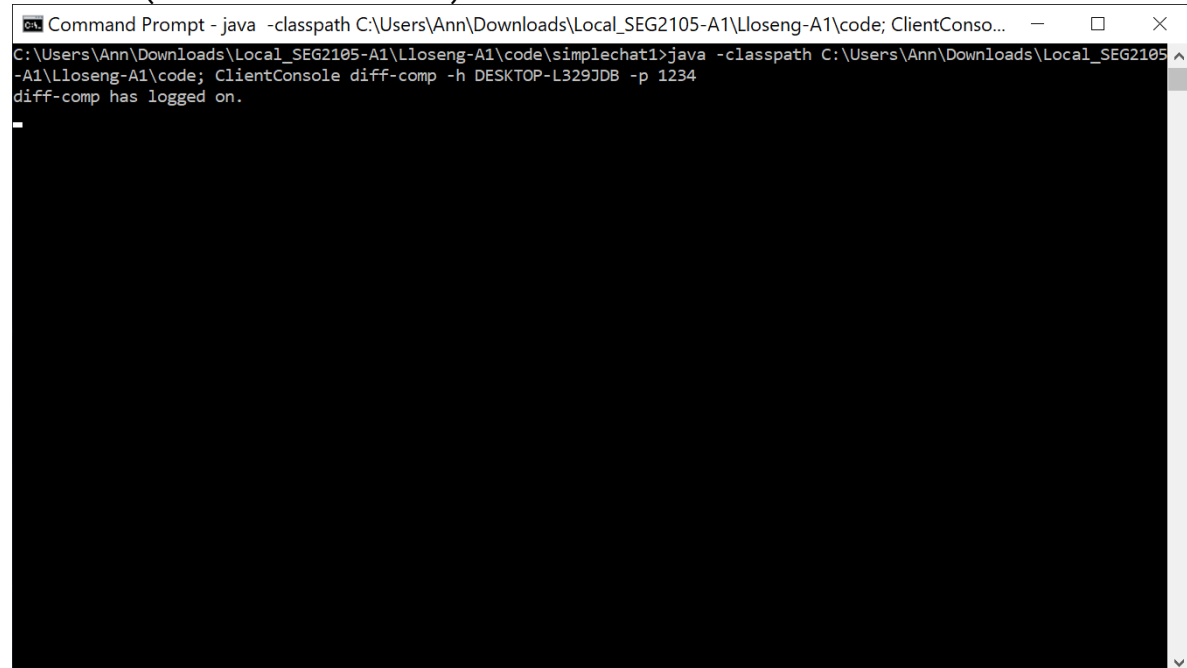

Server: (On DESKTOP-L329JDB)

Client 1: (On DESKTOP-L329JDB)

```
Command Prompt - java  -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole Cli...      —    □    ×

C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientA
ClientA has logged on.
SERVER MESSAGE> Bacon Pancakes
Baking bacon pancakes
ClientA> Baking bacon pancakes
diff-comp-A> Take some bacon and put it in a pancake
diff-comp-B> Bacon pancakes, that's what its gonna make
SERVER MESSAGE> Bacon pancaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaakes
SERVER SHUTTING DOWN! DISCONNECTING!
Abnormal termination of connection.
#setport 1
Port set to: 1.
#login
ClientA has logged on.
Abnormal termination of connection.
```

Client 2: (On DESKTOP-4JC8OL4)

```
Command Prompt - java  -classpath C:\Users\Ann\Downloads\Local_SEG2105-A1\Lloseng-A1\code; ClientConso...      —    □    ×

C:\Users\Ann\Downloads\Local_SEG2105-A1\Lloseng-A1\code\simplechat1>java -classpath C:\Users\Ann\Downloads\Local_SEG2105
-A1\Lloseng-A1\code; ClientConsole diff-comp-A -h DESKTOP-L329JDB
diff-comp-A has logged on.
SERVER MESSAGE> Bacon Pancakes
ClientA> Baking bacon pancakes
Take some bacon and put it in a pancake
diff-comp-A> Take some bacon and put it in a pancake
diff-comp-B> Bacon pancakes, that's what its gonna make
SERVER MESSAGE> Bacon pancaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaakes
SERVER SHUTTING DOWN! DISCONNECTING!
Abnormal termination of connection.
#setport 1
Port set to: 1.
#login
diff-comp-A has logged on.
Abnormal termination of connection.
```

Client 3: (On DESKTOP-4JC8OL4)



Command Prompt - java  -classpath C:\Users\Ann\Downloads\Local_SEG2105-A1\Lloseng-A1\code; ClientConso...

```
C:\Users\Ann\Downloads\Local_SEG2105-A1\Lloseng-A1\code\simplechat1>java -classpath C:\Users\Ann\Downloads\Local_SEG2105
-A1\Lloseng-A1\code; ClientConsole diff-comp-B -h DESKTOP-L329JDB
diff-comp-B has logged on.
SERVER MESSAGE> Bacon Pancakes
ClientA> Baking bacon pancakes
diff-comp-A> Take some bacon and put it in a pancake
Bacon pancakes, that's what its gonna make
diff-comp-B> Bacon pancakes, that's what its gonna make
SERVER MESSAGE> Bacon pancaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaakes
SERVER SHUTTING DOWN! DISCONNECTING!
Abnormal termination of connection.
#setport 1
Port set to: 1.
#login
diff-comp-B has logged on.
Abnormal termination of connection.
```
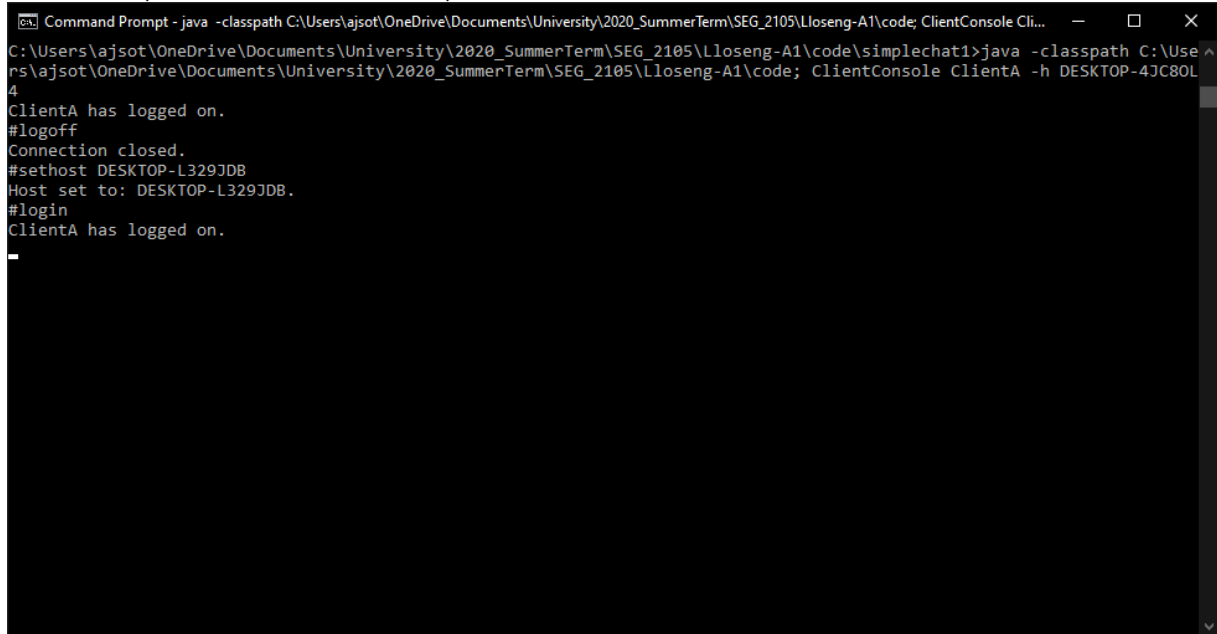
```
================================================================================

Testcase 2016
System: Simple Chat                          Phase: 2 and subsequent
Client changing hosts
Severity: 1
--------------------------------------------------------------------------------

Result: Successful within the constraints set by my notes.

Client: (On DESKTOP-L329JDB)
```
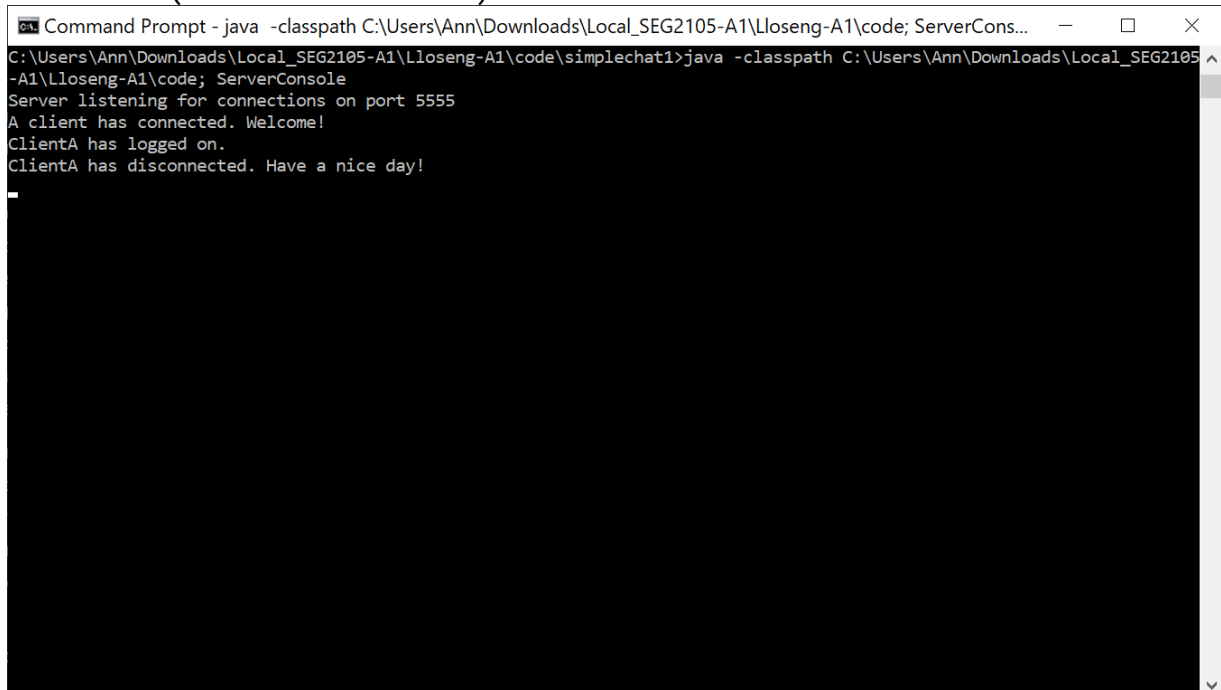


```
Server 1: (On DESKTOP-4JC8OL4)
```
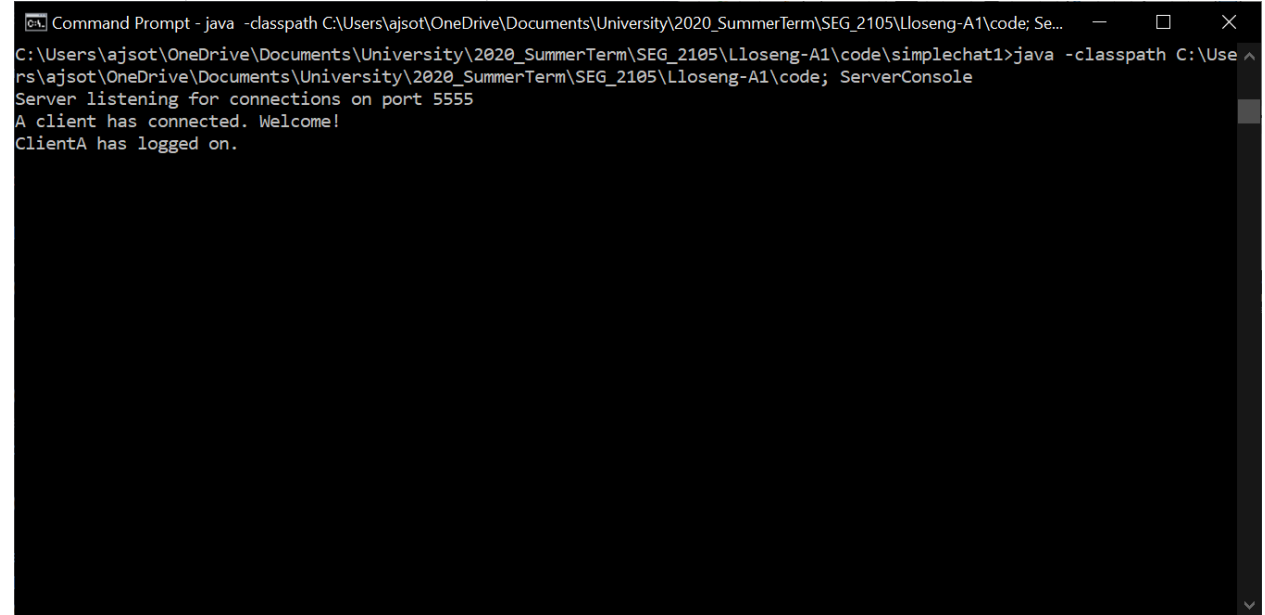
Server 2: (On DESKTOP-L329JDB)

```
Command Prompt - java  -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; Se...    —    □    X

C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ServerConsole
Server listening for connections on port 5555
A client has connected. Welcome!
ClientA has logged on.
```

```
==============================================================================

Testcase 2017
System: Simple Chat                    Phase: 2 and subsequent
Client quitting or logging off a server with multiple connections
Severity: 1
------------------------------------------------------------------------------
```

Result: Successful within the constraints set by my notes.

Server:



Client 1: No actions taken after initiation.

Client 2: Used #quit.

```
Command Prompt                                                              —      □      ×

C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientB
ClientB has logged on.
#quit
Connection closed.

C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>_
```

Client 3: Used #logoff.

```
Command Prompt - java  -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole Cli...   —   □   ×

C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientC
ClientC has logged on.
#logoff
Connection closed.
_
```

```
================================================================================
Testcase 2018
System: Simple Chat                       Phase: 2
Different platform tests
Severity: 1
--------------------------------------------------------------------------------

Was not able to perform this test since I do not have different platforms.

================================================================================
Testcase 2019
System: Simple Chat                       Phase: 2
Interaction between different platforms
Severity: 1
--------------------------------------------------------------------------------

Was not able to perform this test since I do not have different platforms.

================================================================================
```