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SEG 2105 - Summer 2020 - Assignment 1

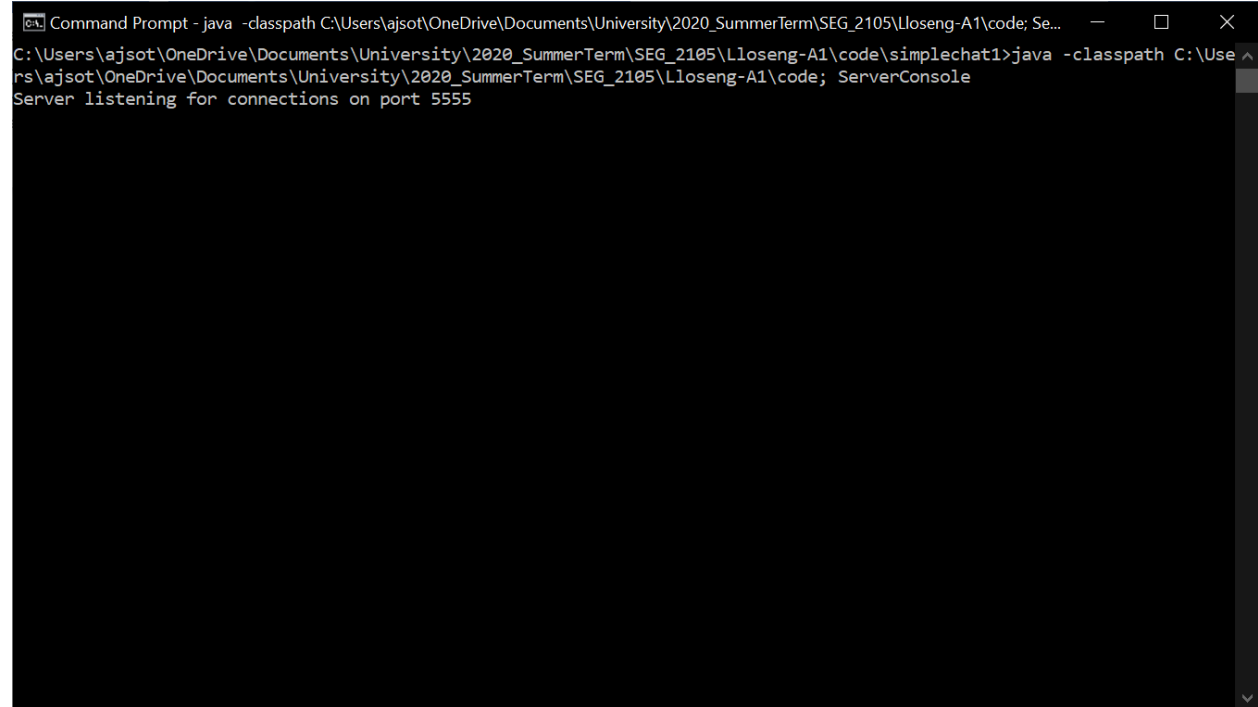
Notes:

- 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
-----
```

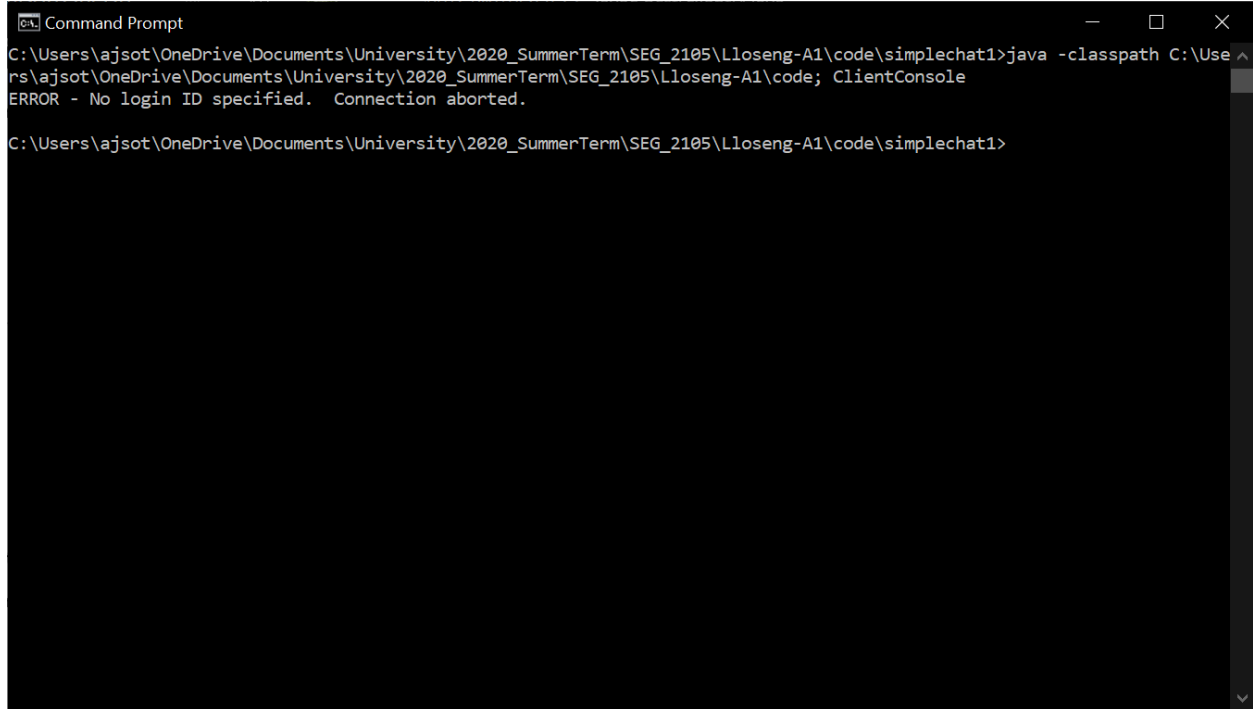
Result: Successful



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

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

Result: Successful

A screenshot of a Windows Command Prompt window. The title bar reads "Command Prompt". The command entered is: `C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole`. The output shows an error: `ERROR - No login ID specified. Connection aborted.`. The prompt is now at `C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>`.

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

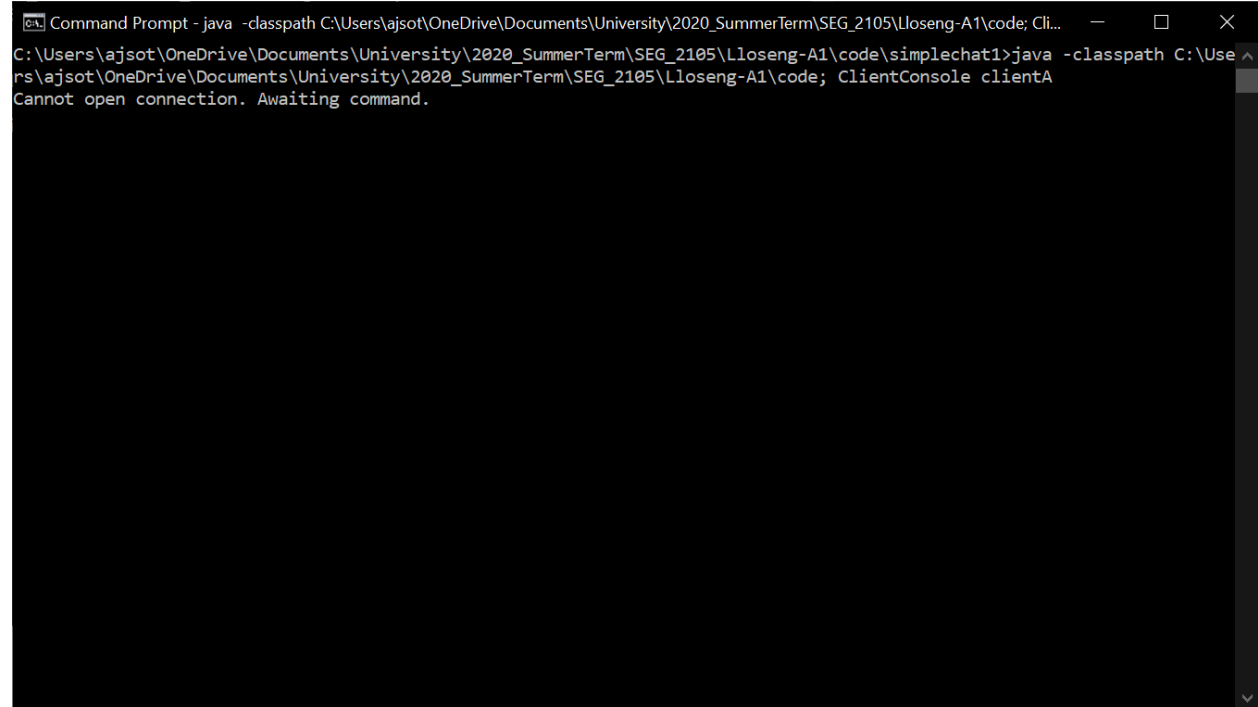
System: Simple Chat

Phase: 2

Client startup check with a login and without a server

Severity: 1

Result: Successful



```
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 clientA
Cannot open connection. Awaiting command.
```

=====

Testcase 2004

System: Simple Chat

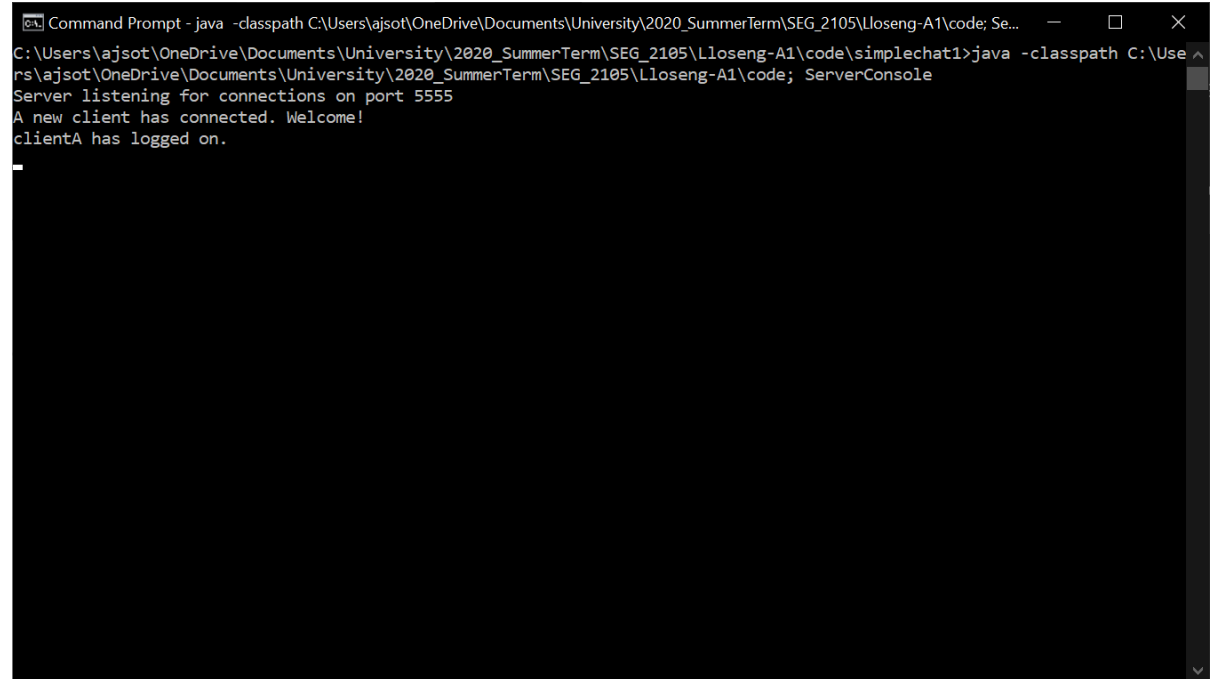
Phase: 2

Client connection with default arguments

Severity: 1

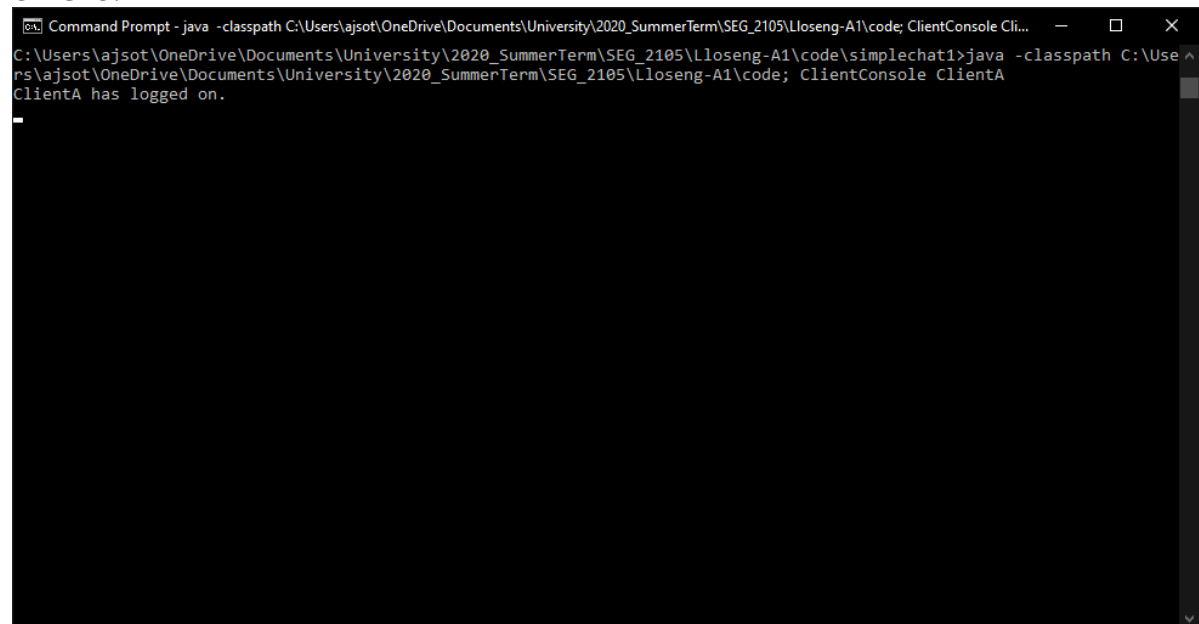
Result: Successful, similar but different text than specified. However, no message such as "Message received #login <loginID> from null."

Server:



```
Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; Se...
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 new client has connected. Welcome!
clientA has logged on.
```

Client:



```
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.
```

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

Result: Successful

Server:

```
Command Prompt - java -classpath C:\Users\ajso\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; Se...
C:\Users\ajso\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code\simplechat1>java -classpath C:\Use ^
rs\ajso\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; ServerConsole
Server listening for connections on port 5555
A new client has connected. Welcome!
clientA has logged on.
Message received: data from clientA
```

Client:

```
Command Prompt - java -classpath C:\Users\ajso\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; ClientConsole Cli...
C:\Users\ajso\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code\simplechat1>java -classpath C:\Use ^
rs\ajso\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; ClientConsole ClientA
ClientA has logged on.
data
ClientA> data
```

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

Result: Successful

Server:

```
Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; Se...
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.
A client has connected. Welcome!
ClientB has logged on.
A client has connected. Welcome!
ClientC has logged on.
test message 1
SERVER MSG> test message 1
Message received: test message 2 from ClientA
Message received: test message 3 from ClientB
Message received: test message 4 from ClientC
-
```

Client 1:

```
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> test message 1
test message 2
ClientA> test message 2
ClientB> test message 3
ClientC> test message 4
```

Client 2:

```
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.
SERVER MESSAGE> test message 1
ClientA> test message 2
test message 3
ClientB> test message 3
ClientC> test message 4
```

Client 3:

```
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.
SERVER MESSAGE> test message 1
ClientA> test message 2
ClientB> test message 3
test message 4
ClientC> test message 4
```


=====

Testcase 2007

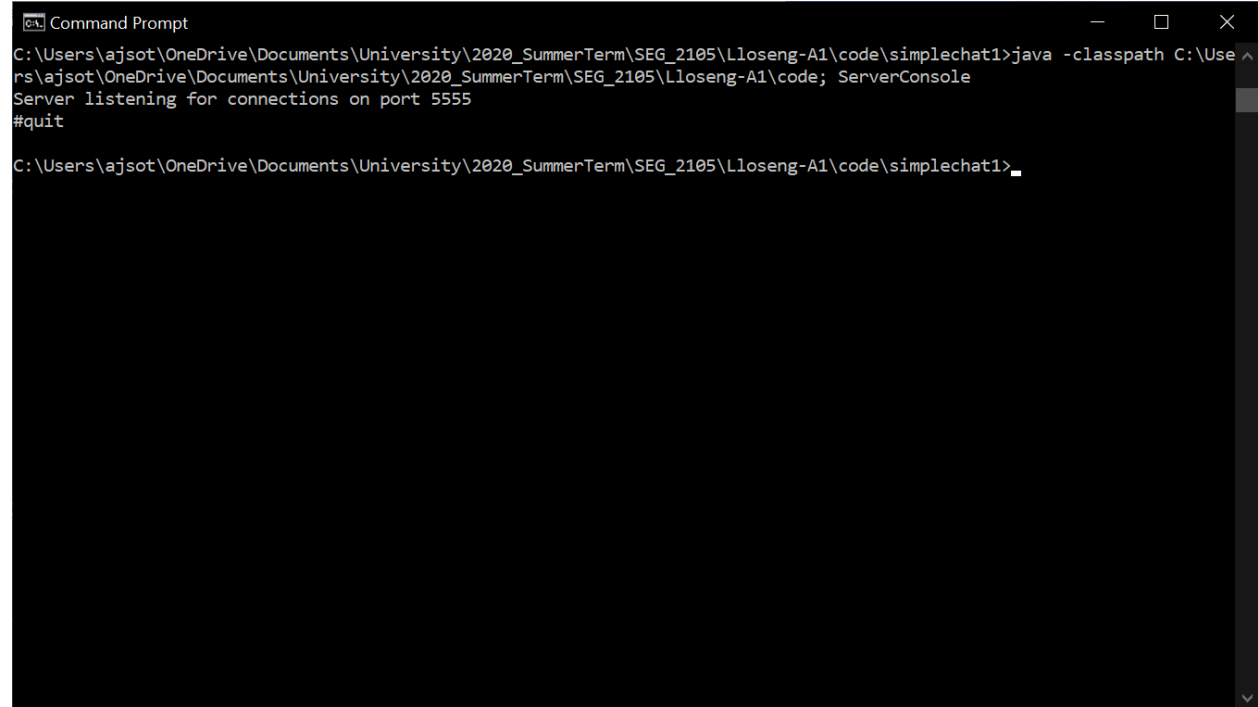
System: Simple Chat

Phase: 2 and subsequent

Server termination command check

Severity: 1

Result: Successful



```
Command Prompt
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ServerConsole
Server listening for connections on port 5555
#quit
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>
```

=====

Testcase 2008

System: Simple Chat

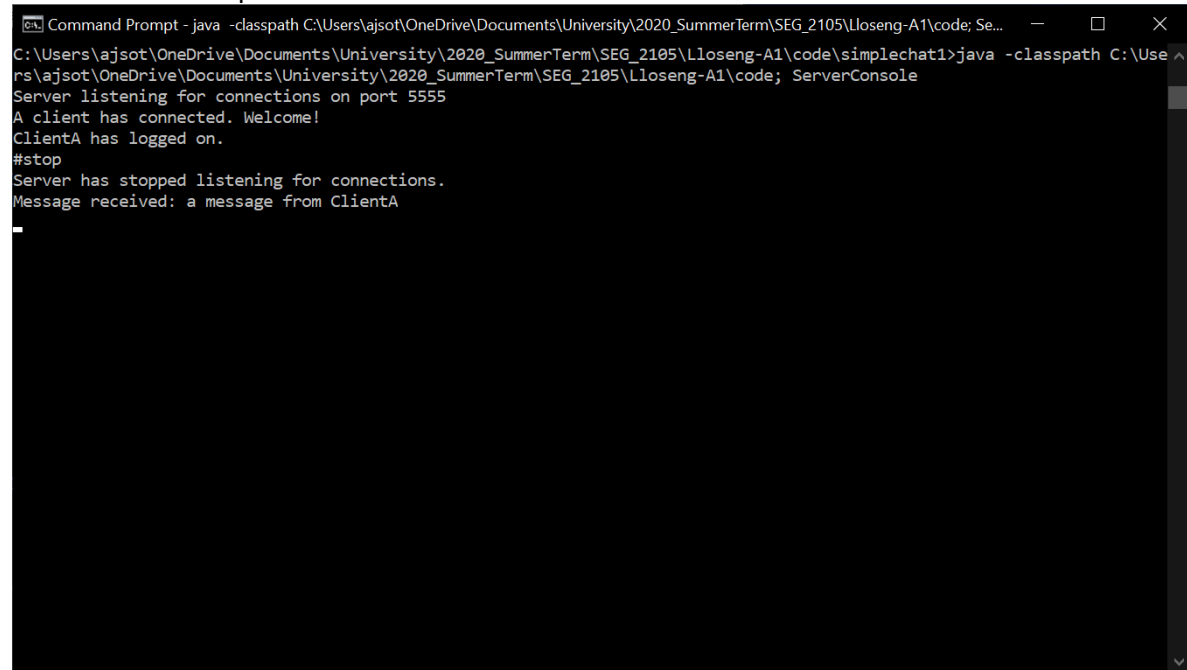
Phase: 2 and 3

Server stop check

Severity: 2

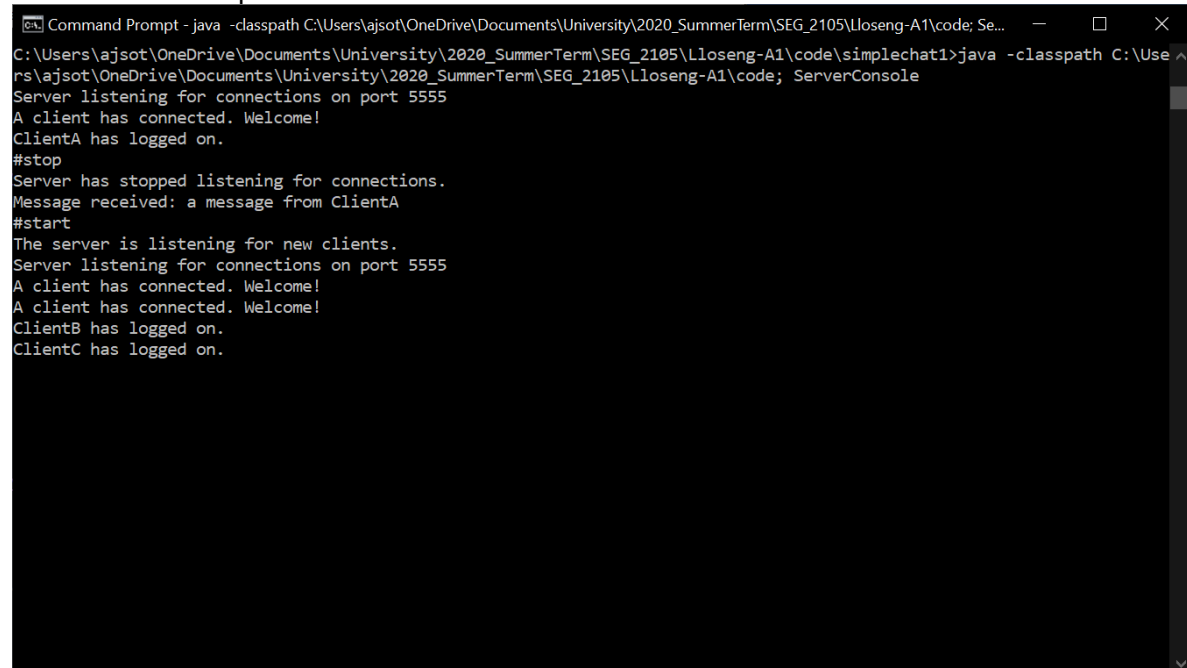
Result: Successful

Server: At step 5:



```
Command Prompt - java -classpath C:\Users\ajstot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; Se...
C:\Users\ajstot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Users\ajstot\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.
#stop
Server has stopped listening for connections.
Message received: a message from ClientA
```

Server: At step 6:



```
Command Prompt - java -classpath C:\Users\ajstot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; Se...
C:\Users\ajstot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Users\ajstot\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.
#stop
Server has stopped listening for connections.
Message received: a message from ClientA
#start
The server is listening for new clients.
Server listening for connections on port 5555
A client has connected. Welcome!
A client has connected. Welcome!
ClientB has logged on.
ClientC has logged on.
```

Client 1:

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

```
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 ClientB
```

Client 2: At step 6:

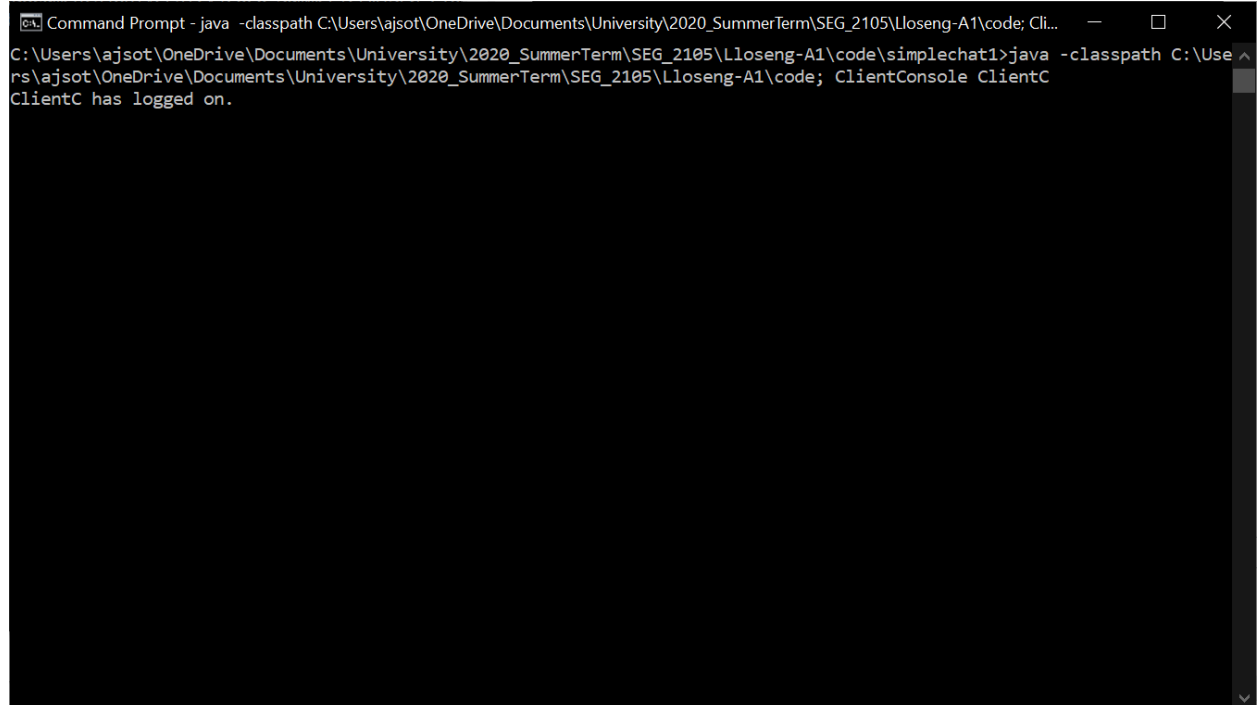
```
Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole Cli...
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code;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

=====

Testcase 2009

System: Simple Chat

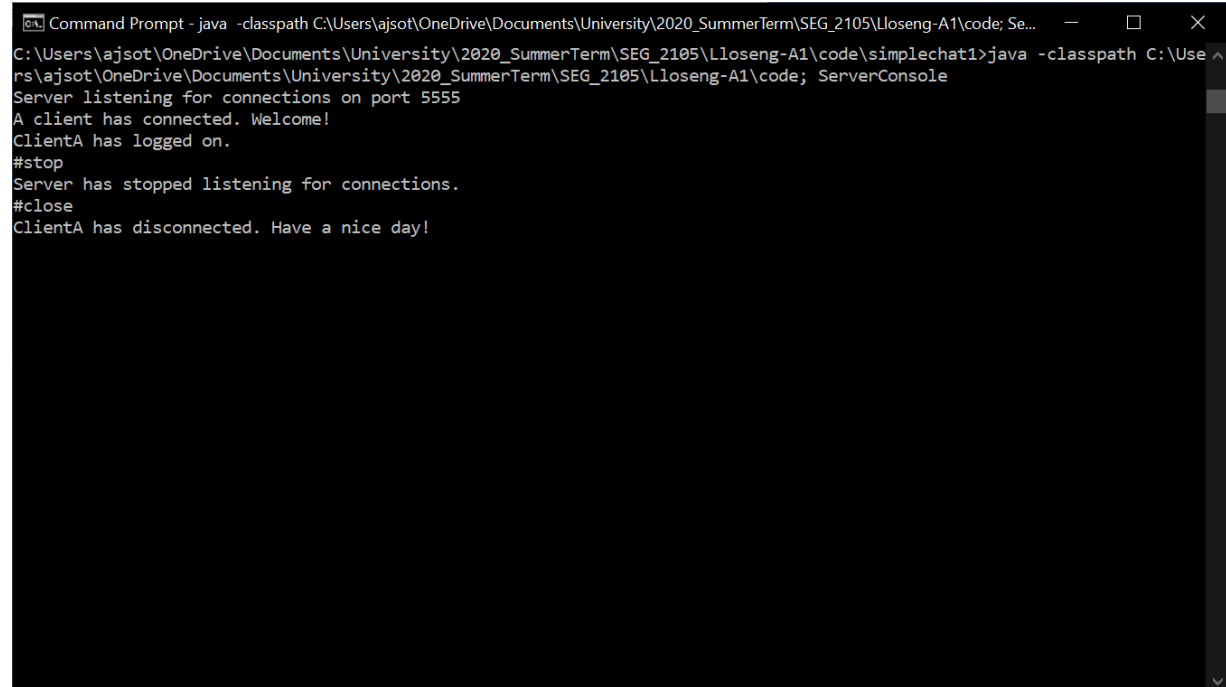
Phase: 2 and 3

Server close command check

Severity: 2

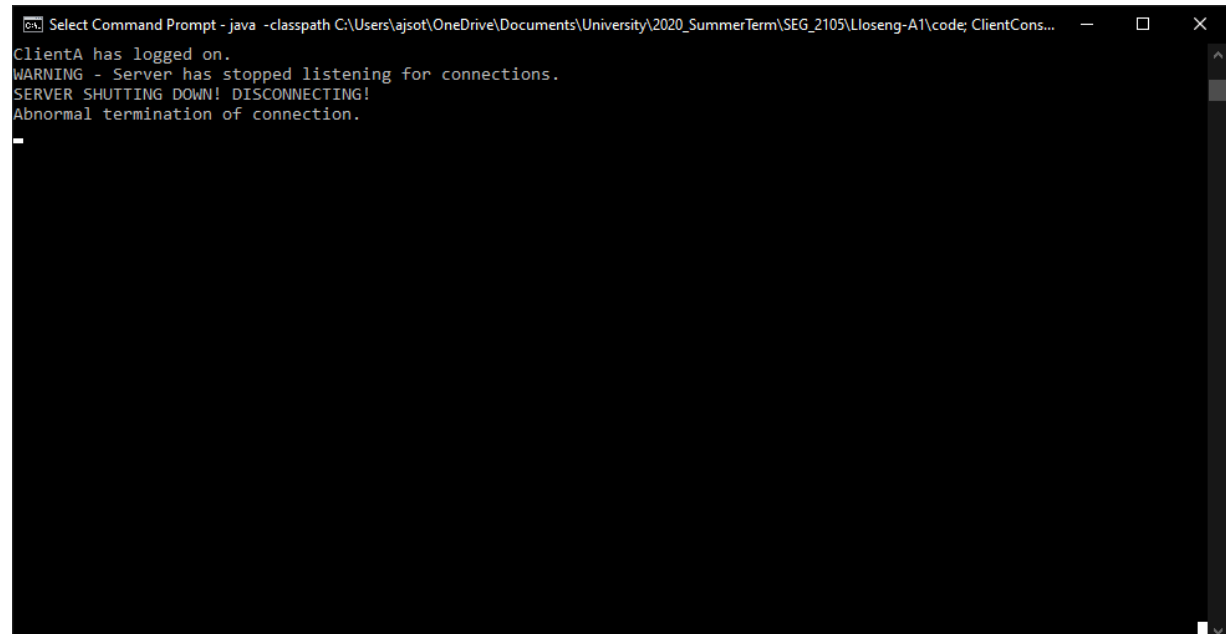
Result: Successful

Server:



```
Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; Se...
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code\simplechat1>java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; ServerConsole
Server listening for connections on port 5555
A client has connected. Welcome!
ClientA has logged on.
#stop
Server has stopped listening for connections.
#close
ClientA has disconnected. Have a nice day!
```

Client:



```
Select Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; ClientCons...
ClientA has logged on.
WARNING - Server has stopped listening for connections.
SERVER SHUTTING DOWN! DISCONNECTING!
Abnormal termination of connection.
```

=====

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:

```
Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; Se...
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.
#close
ClientA has disconnected. Have a nice day!
Server has stopped listening for connections.
#start
The server is listening for new clients.
Server listening for connections on port 5555
```

Client:

```
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 ClientA
ClientA has logged on.
SERVER SHUTTING DOWN! DISCONNECTING!
Abnormal termination of connection.
```

=====
Testcase 2010

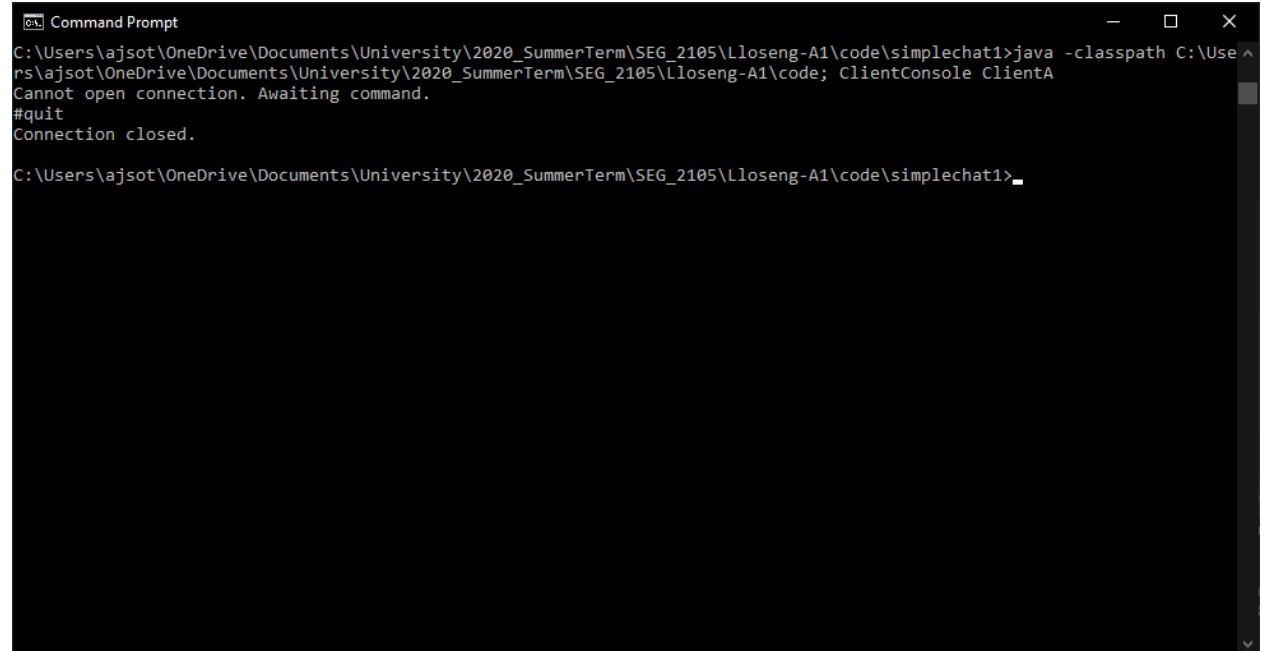
System: Simple Chat

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.



```
Command Prompt
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code\simplechat1>java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; ClientConsole ClientA
Cannot open connection. Awaiting command.
#quit
Connection closed.
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code\simplechat1>
```



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

Result: Successful

Server:

```
Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; Se...
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.
ClientA has disconnected. Have a nice day!
```

Client:

```
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.
#logoff
Connection closed.
```

=====

Testcase 2012

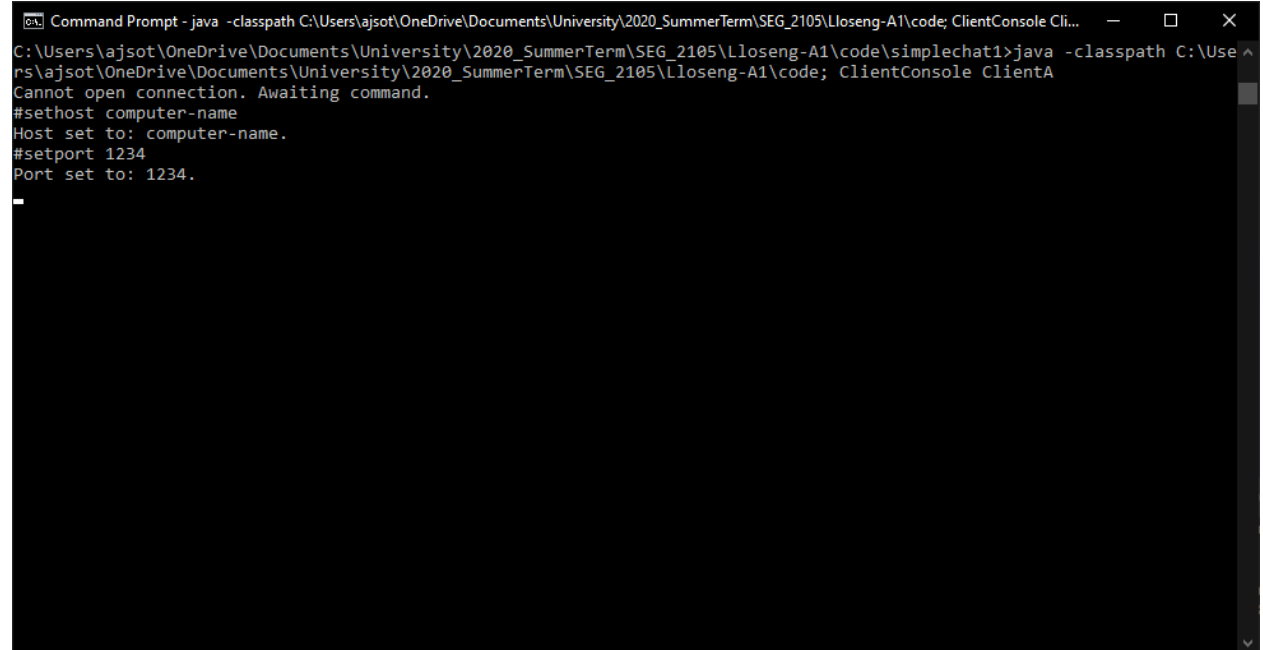
System: Simple Chat

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\Lloeng-A1\code; ClientConsole Cli...
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code\simplechat1>java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-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

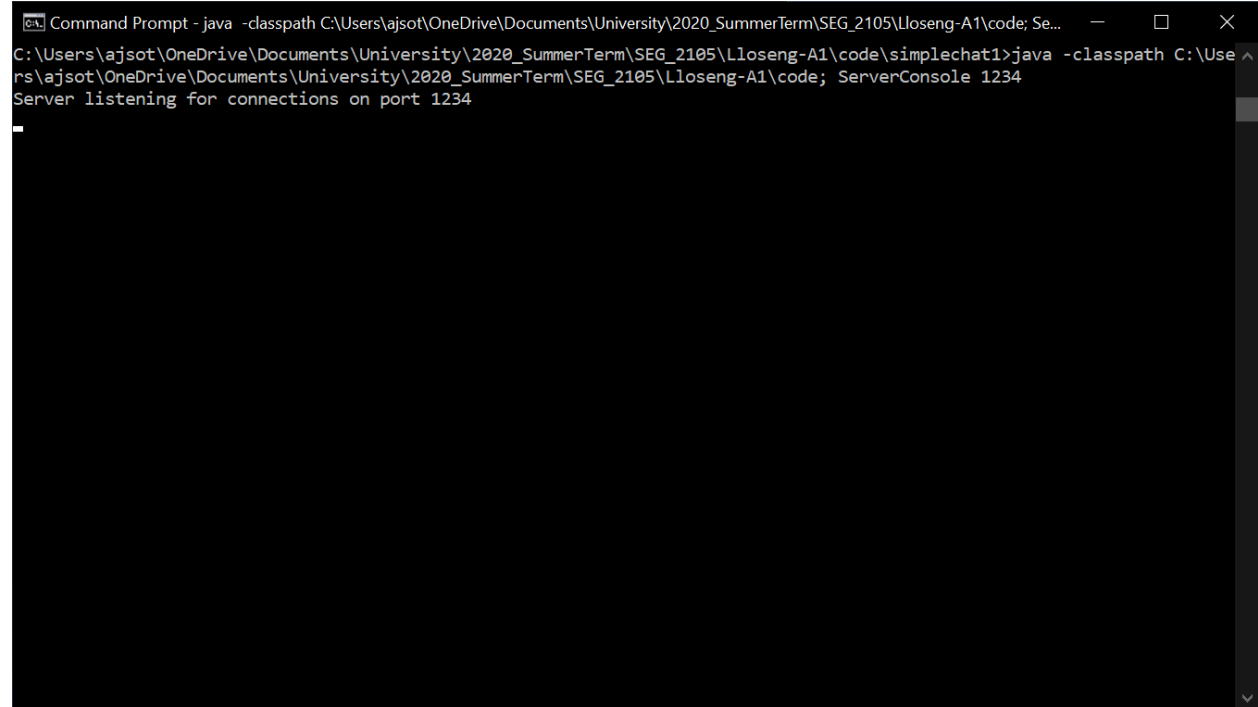
System: Simple Chat

Phase: 2 and subsequent

Starting a server on a non-default port

Severity: 1

Result: Successful

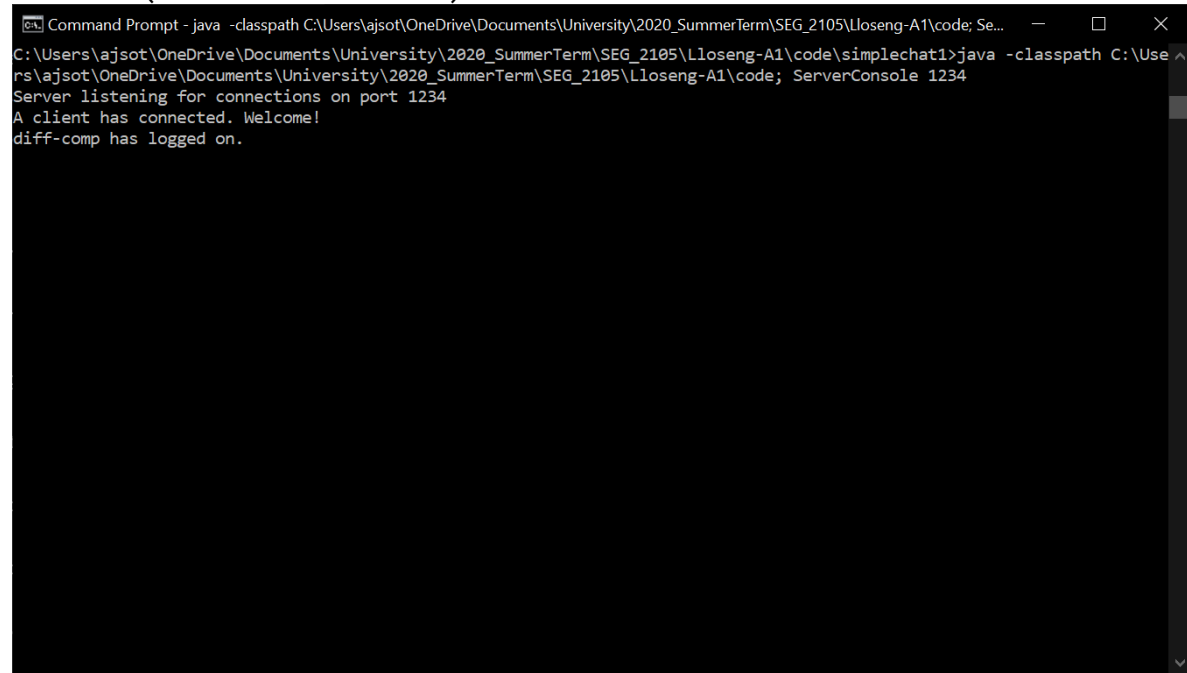


```
Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; Se...  
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use  
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ServerConsole 1234  
Server listening for connections on port 1234
```

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

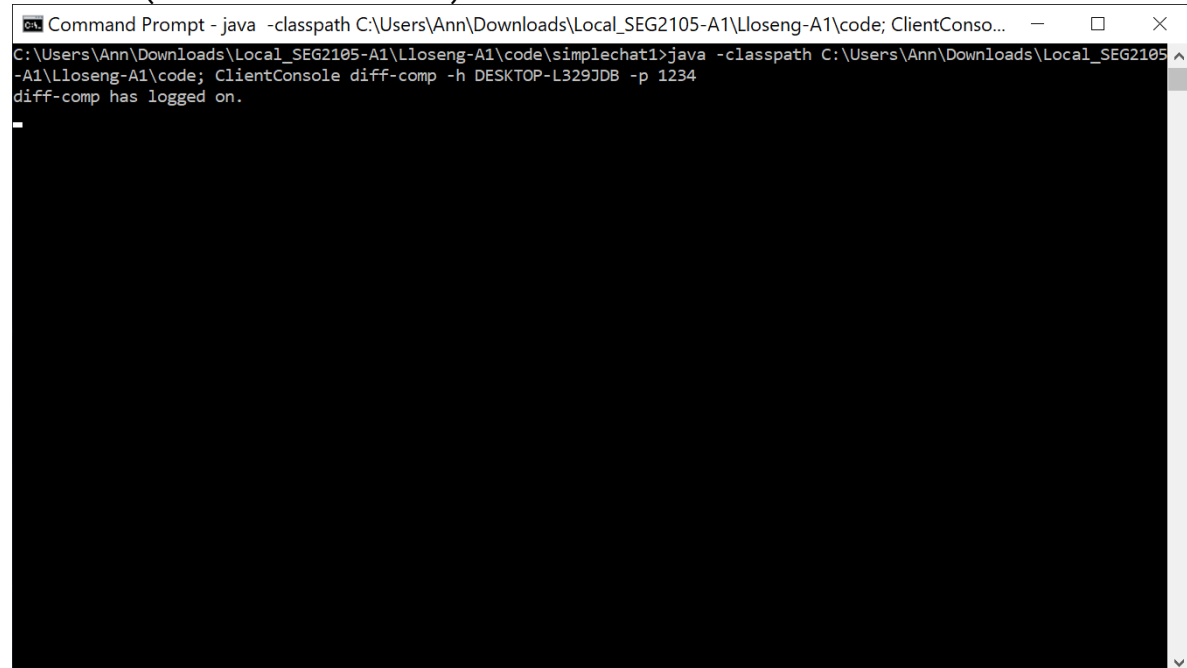
Result: Successful

Server: (On DESKTOP-L329JDB)



```
Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; Se...
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; ServerConsole 1234
Server listening for connections on port 1234
A client has connected. Welcome!
diff-comp has logged on.
```

Client: (On DESKTOP-4JC80L4)



```
Command Prompt - java -classpath C:\Users\Ann\Downloads\Local_SEG2105-A1\Lloeng-A1\code; ClientConso...
C:\Users\Ann\Downloads\Local_SEG2105-A1\Lloeng-A1\code\simplechat1>java -classpath C:\Users\Ann\Downloads\Local_SEG2105
-A1\Lloeng-A1\code; ClientConsole diff-comp -h DESKTOP-L329JDB -p 1234
diff-comp has logged on.
```

```
=====
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)

```
Command Prompt
C:\Users\ajstot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Use
rs\ajstot\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.
A client has connected. Welcome!
diff-comp-A has logged on.
A client has connected. Welcome!
diff-comp-B has logged on.
Bacon Pancakes
SERVER MSG> Bacon Pancakes
Message received: Baking bacon pancakes from ClientA
Message received: Take some bacon and put it in a pancake from diff-comp-A
Message received: Bacon pancakes, that's what its gonna make from diff-comp-B
Bacon pancaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaakes
SERVER MSG> Bacon pancaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaakes
#close
ClientA has disconnected. Have a nice day!
diff-comp-A has disconnected. Have a nice day!
diff-comp-B has disconnected. Have a nice day!
Server has stopped listening for connections.
#setport 1
Port set to: 1.
#start
The server is listening for new clients.
Server listening for connections on port 1
A client has connected. Welcome!
ClientA has logged on.
A client has connected. Welcome!
diff-comp-A has logged on.
A client has connected. Welcome!
diff-comp-B has logged on.
#quit
ClientA has disconnected. Have a nice day!
diff-comp-A has disconnected. Have a nice day!
diff-comp-B has disconnected. Have a nice day!
Server has stopped listening for connections.

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

Client 1: (On DESKTOP-L329JDB)

```
Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; ClientConsole Cli...
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code\simplechat1>java -classpath C:\Use
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-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 pancaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaakes
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-4JC80L4)

```
Command Prompt - java -classpath C:\Users\Ann\Downloads\Local_SEG2105-A1\Lloeng-A1\code; ClientConso...
C:\Users\Ann\Downloads\Local_SEG2105-A1\Lloeng-A1\code\simplechat1>java -classpath C:\Users\Ann\Downloads\Local_SEG2105
-A1\Lloeng-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 pancaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaakes
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.
```

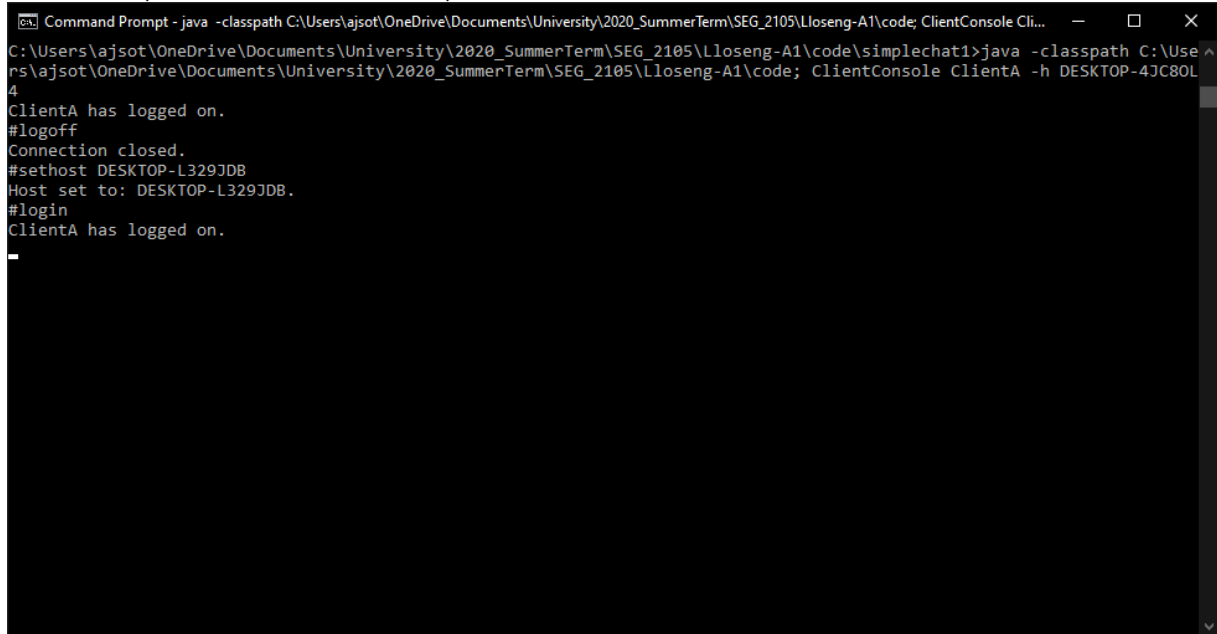
Client 3: (On DESKTOP-4JC80L4)

```
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 pancaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaakes
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
-----
```

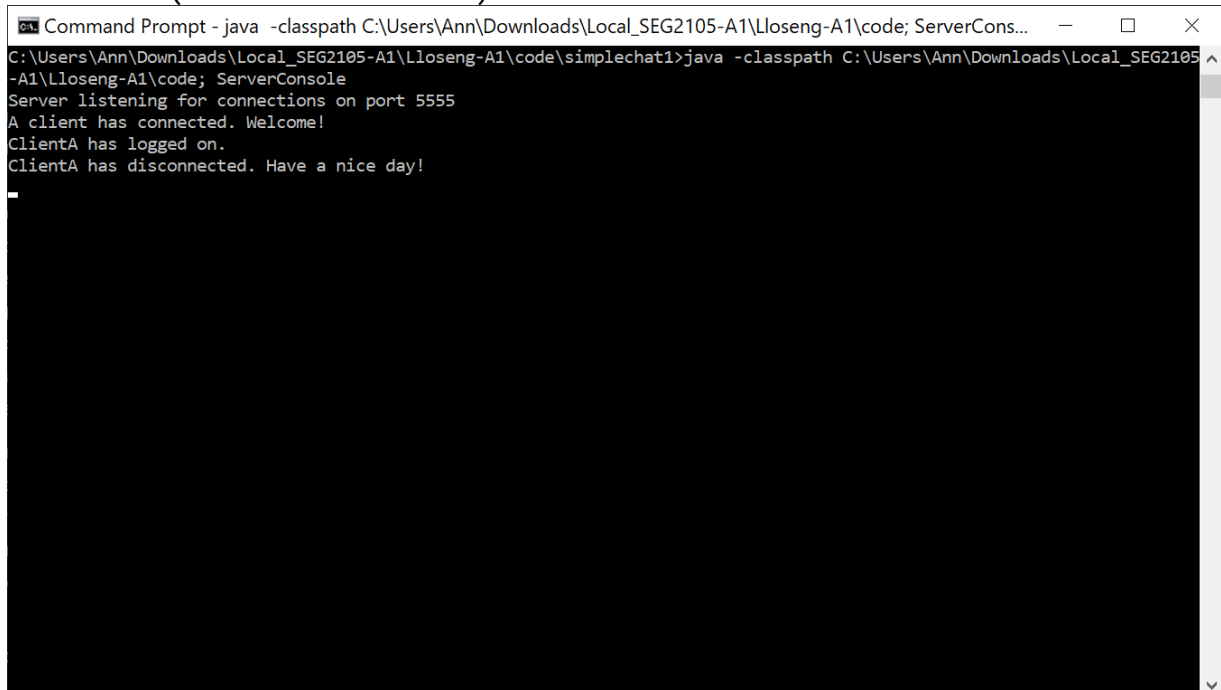
Result: Successful within the constraints set by my notes.

Client: (On DESKTOP-L329JDB)



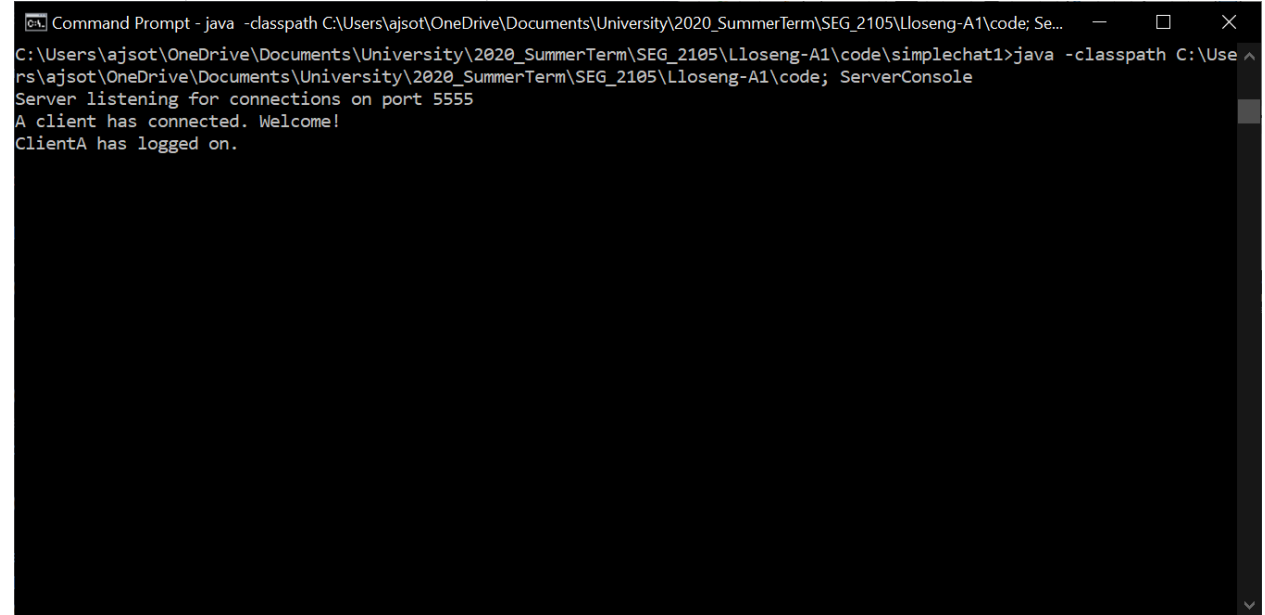
```
Command Prompt - java -classpath C:\Users\ajstot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole Cli...
C:\Users\ajstot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1>java -classpath C:\Users\ajstot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ClientConsole ClientA -h DESKTOP-4JC8OL4
ClientA has logged on.
#logout
Connection closed.
#sethost DESKTOP-L329JDB
Host set to: DESKTOP-L329JDB.
#login
ClientA has logged on.
_
```

Server 1: (On DESKTOP-4JC8OL4)



```
Command Prompt - java -classpath C:\Users\Ann\Downloads\Local_SEG2105-A1\Lloseng-A1\code; ServerCons...
C:\Users\Ann\Downloads\Local_SEG2105-A1\Lloseng-A1\code\simplechat1>java -classpath C:\Users\Ann\Downloads\Local_SEG2105-A1\Lloseng-A1\code; ServerConsole
Server listening for connections on port 5555
A client has connected. Welcome!
ClientA has logged on.
ClientA has disconnected. Have a nice day!
_
```


Server 2: (On DESKTOP-L329JDB)



The screenshot shows a Windows Command Prompt window with the following text:

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

The window title bar indicates the command being run: `Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; Se...`. The command prompt shows the user navigating to the directory `C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code\simplechat1` and running the command `java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloseng-A1\code; ServerConsole`. The output shows the server listening on port 5555, a client connecting, and the client logging 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:

```
Command Prompt - java -classpath C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; Se...
C:\Users\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code\simplechat1>java -classpath C:\Use...
rs\ajsot\OneDrive\Documents\University\2020_SummerTerm\SEG_2105\Lloeng-A1\code; ServerConsole
Server listening for connections on port 5555
A client has connected. Welcome!
ClientA has logged on.
A client has connected. Welcome!
ClientB has logged on.
A client has connected. Welcome!
ClientC has logged on.
ClientB has disconnected. Have a nice day!
ClientC has disconnected. Have a nice day!
```

Client 1: No actions taken after initiation.

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

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.