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PHASE 1 TESTS

1001

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..:/code:..' EchoServer
Server listening for connections on port 5555
```

1002

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..:/code:..' ClientConsole
Error: Can't setup connection! Terminating client.

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$
```

1003

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..:/code:..' EchoServer
Server listening for connections on port 5555

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..:/code:..' ClientConsole
```

1004

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..:/code:..' EchoServer
Server listening for connections on port 5555
Message received: Testcase 1004 from 127.0.0.1 (127.0.0.1)

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..:/code:..' ClientConsole
Testcase 1004
> Testcase 1004
```

1005



```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
$ java -classpath '../..code:..' EchoServer
Server listening for connections on port 5555

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
$ java -classpath '../..code:..' ClientConsole
Testcase 1005
> Could not send message to server. Terminating client.

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$
```

1006



```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' EchoServer
Server listening for connections on port 5555

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole
```


1007



```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' EchoServer
Server listening for connections on port 5555
Message received: Testcase 1007 from 127.0.0.1 (127.0.0.1)

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole
Testcase 1007
> Testcase 1007

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole
> Testcase 1007

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole
> Testcase 1007
```

1008-1012 (do not have a second computer)

1013



```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
$ java -classpath '../..code:..' EchoServer
Server listening for connections on port 5555

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole
```

PHASE 2 TESTS

2001

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:.' ServerConsole
Server listening for connections on port 5555
```

2002

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:.' ClientConsole
ERROR - No login ID specified. Connection terminated.

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$
```

2003

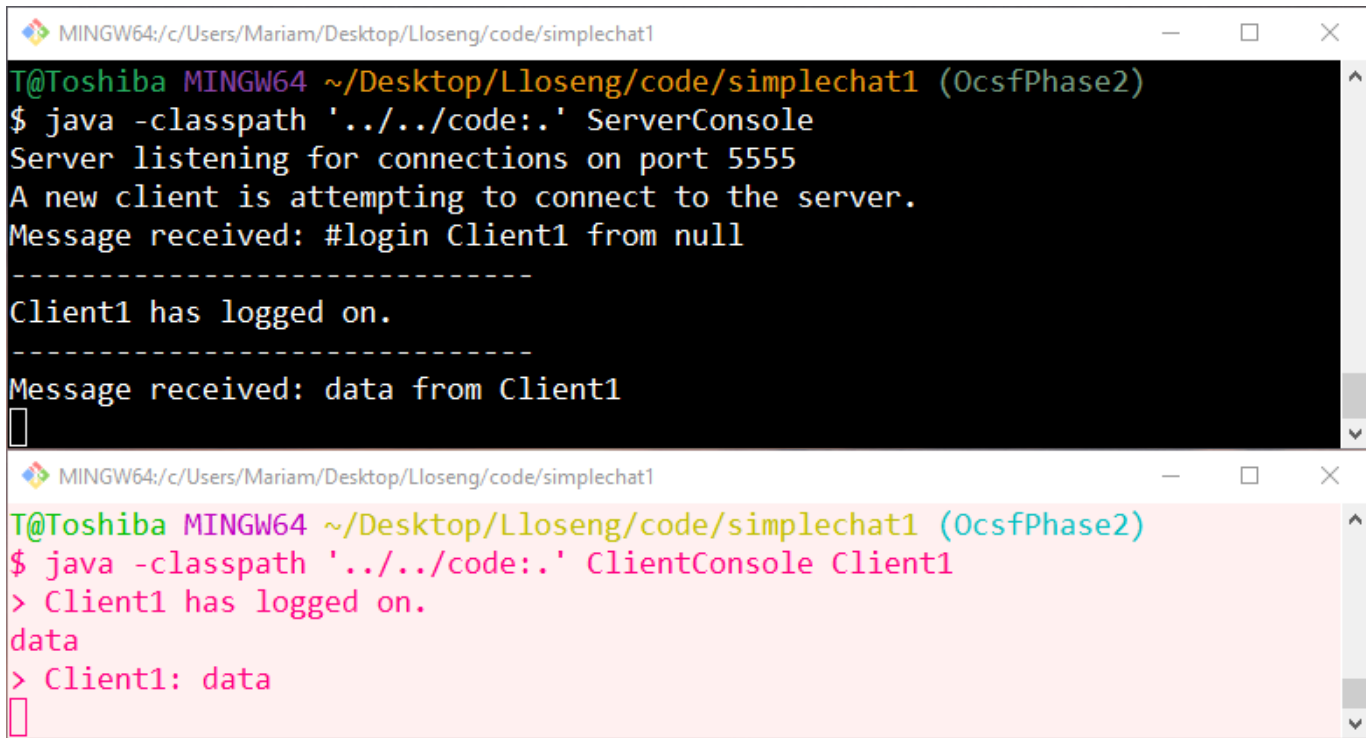
```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:.' ClientConsole Client1
Cannot open connection. Awaiting command.
```

2004

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:.' ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Client1 from null
-----
Client1 has logged on.
-----

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:.' ClientConsole Client1
> Client1 has logged on.
```

2005

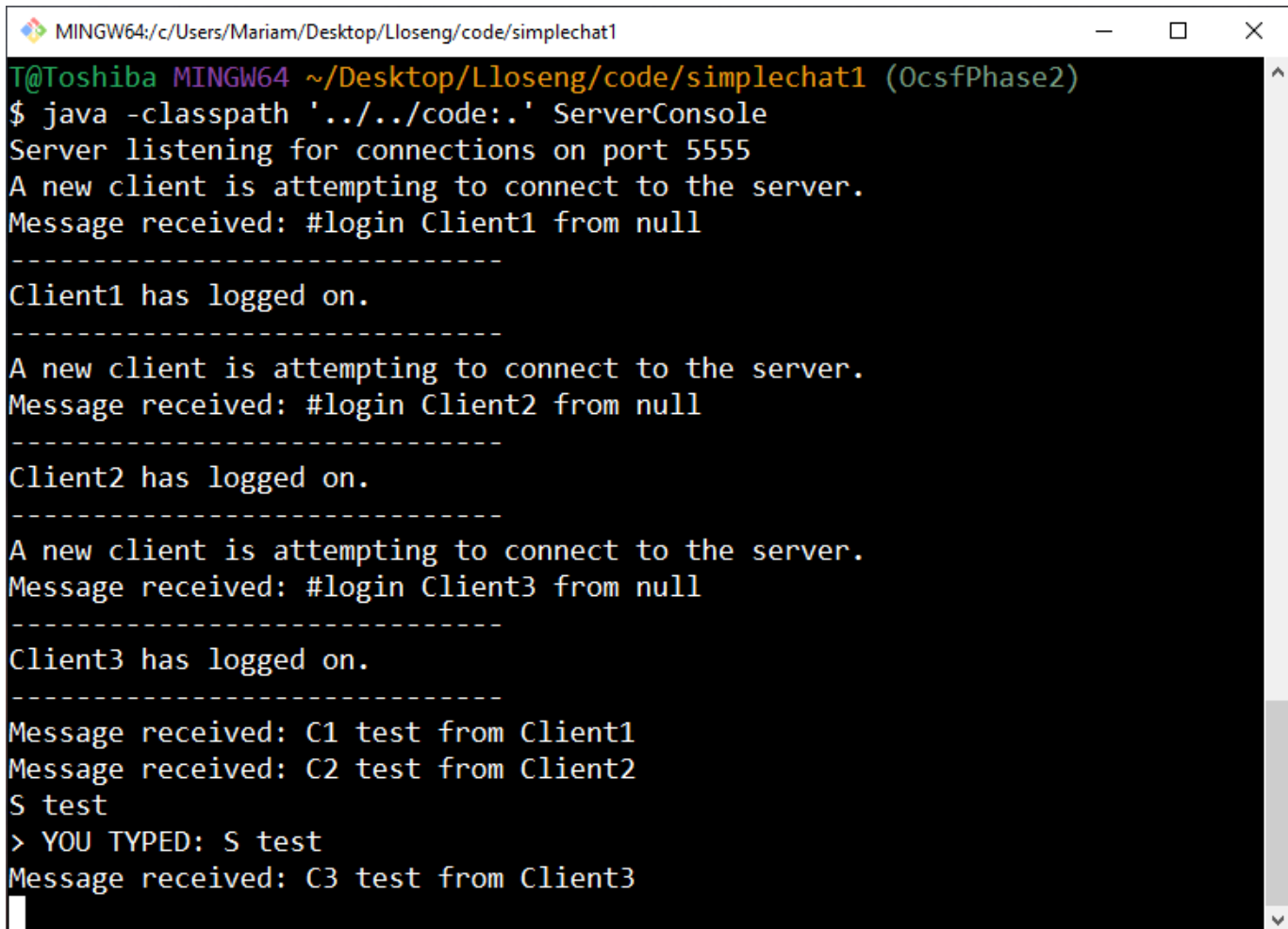


The image shows two screenshots of a Windows command prompt window. The title bar reads 'MINGW64: c:/Users/Mariam/Desktop/Lloseng/code/simplechat1'. The first screenshot shows the server console output: 'T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)', '\$ java -classpath '../..../code:..' ServerConsole', 'Server listening for connections on port 5555', 'A new client is attempting to connect to the server.', 'Message received: #login Client1 from null', '-----', 'Client1 has logged on.', '-----', 'Message received: data from Client1', and a cursor. The second screenshot shows the client console output: 'T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)', '\$ java -classpath '../..../code:..' ClientConsole Client1', '> Client1 has logged on.', 'data', '> Client1: data', and a cursor.

```
MINGW64: c:/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..../code:..' ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Client1 from null
-----
Client1 has logged on.
-----
Message received: data from Client1
█

MINGW64: c:/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..../code:..' ClientConsole Client1
> Client1 has logged on.
data
> Client1: data
█
```

2006



The image shows a screenshot of a Windows command prompt window. The title bar reads 'MINGW64: c:/Users/Mariam/Desktop/Lloseng/code/simplechat1'. The output shows the server console handling three clients: 'T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)', '\$ java -classpath '../..../code:..' ServerConsole', 'Server listening for connections on port 5555', 'A new client is attempting to connect to the server.', 'Message received: #login Client1 from null', '-----', 'Client1 has logged on.', '-----', 'A new client is attempting to connect to the server.', 'Message received: #login Client2 from null', '-----', 'Client2 has logged on.', '-----', 'A new client is attempting to connect to the server.', 'Message received: #login Client3 from null', '-----', 'Client3 has logged on.', '-----', 'Message received: C1 test from Client1', 'Message received: C2 test from Client2', 'S test', '> YOU TYPED: S test', 'Message received: C3 test from Client3', and a cursor.

```
MINGW64: c:/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..../code:..' ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Client1 from null
-----
Client1 has logged on.
-----
A new client is attempting to connect to the server.
Message received: #login Client2 from null
-----
Client2 has logged on.
-----
A new client is attempting to connect to the server.
Message received: #login Client3 from null
-----
Client3 has logged on.
-----
Message received: C1 test from Client1
Message received: C2 test from Client2
S test
> YOU TYPED: S test
Message received: C3 test from Client3
█
```

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client1
> Client1 has logged on.
> Client2 has logged on.
> Client3 has logged on.
C1 test
> Client1: C1 test
> Client2: C2 test
> SERVER MSG> S test
> Client3: C3 test
█

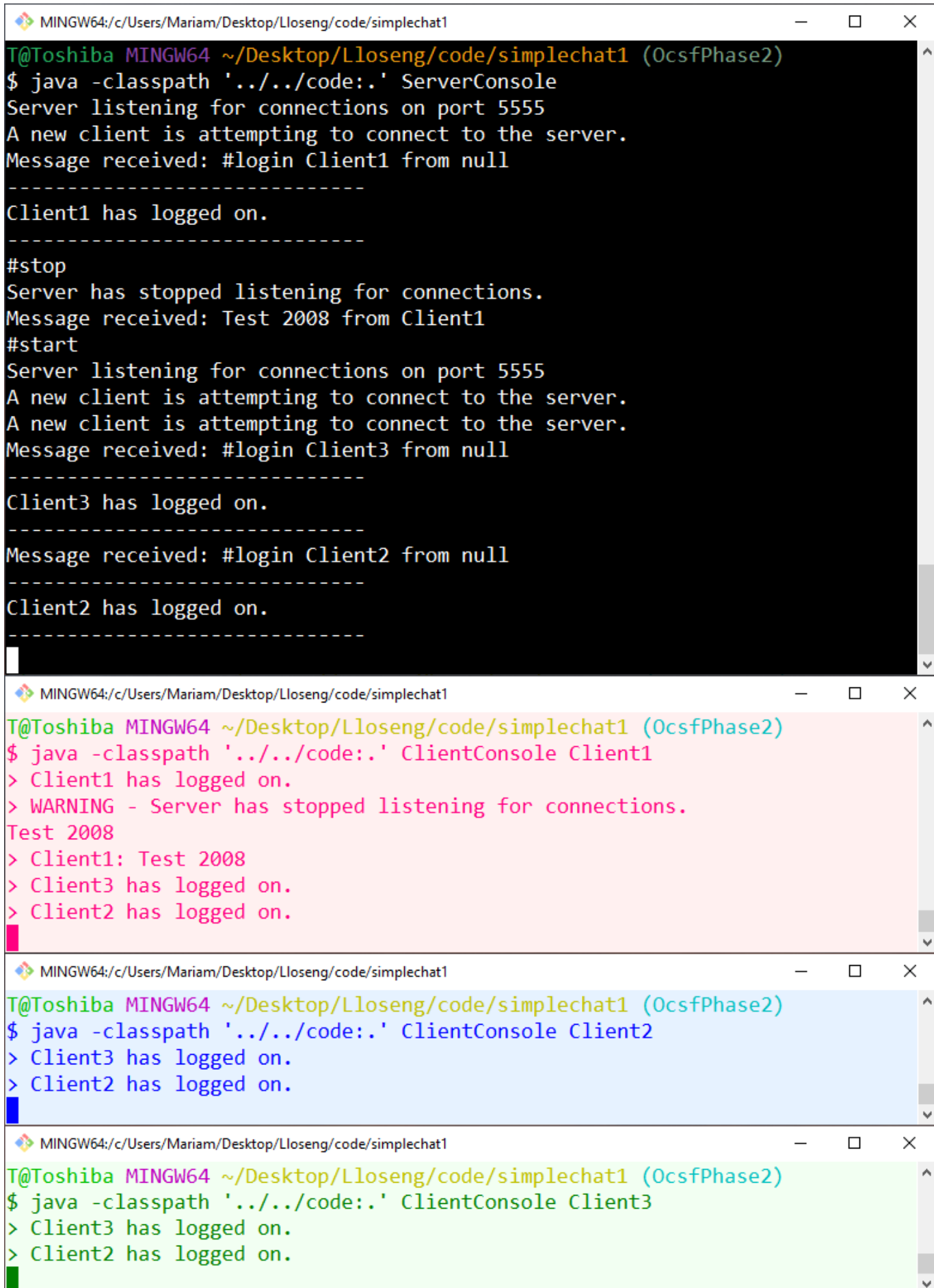
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client2
> Client2 has logged on.
> Client3 has logged on.
> Client1: C1 test
C2 test
> Client2: C2 test
> SERVER MSG> S test
> Client3: C3 test
█

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client3
> Client3 has logged on.
> Client1: C1 test
> Client2: C2 test
> SERVER MSG> S test
C3 test
> Client3: C3 test
█
```

2007

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ServerConsole
Server listening for connections on port 5555
#quit

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ █
```



```

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Client1 from null
-----
Client1 has logged on.
-----
#stop
Server has stopped listening for connections.
Message received: Test 2008 from Client1
#start
Server listening for connections on port 5555
A new client is attempting to connect to the server.
A new client is attempting to connect to the server.
Message received: #login Client3 from null
-----
Client3 has logged on.
-----
Message received: #login Client2 from null
-----
Client2 has logged on.
-----

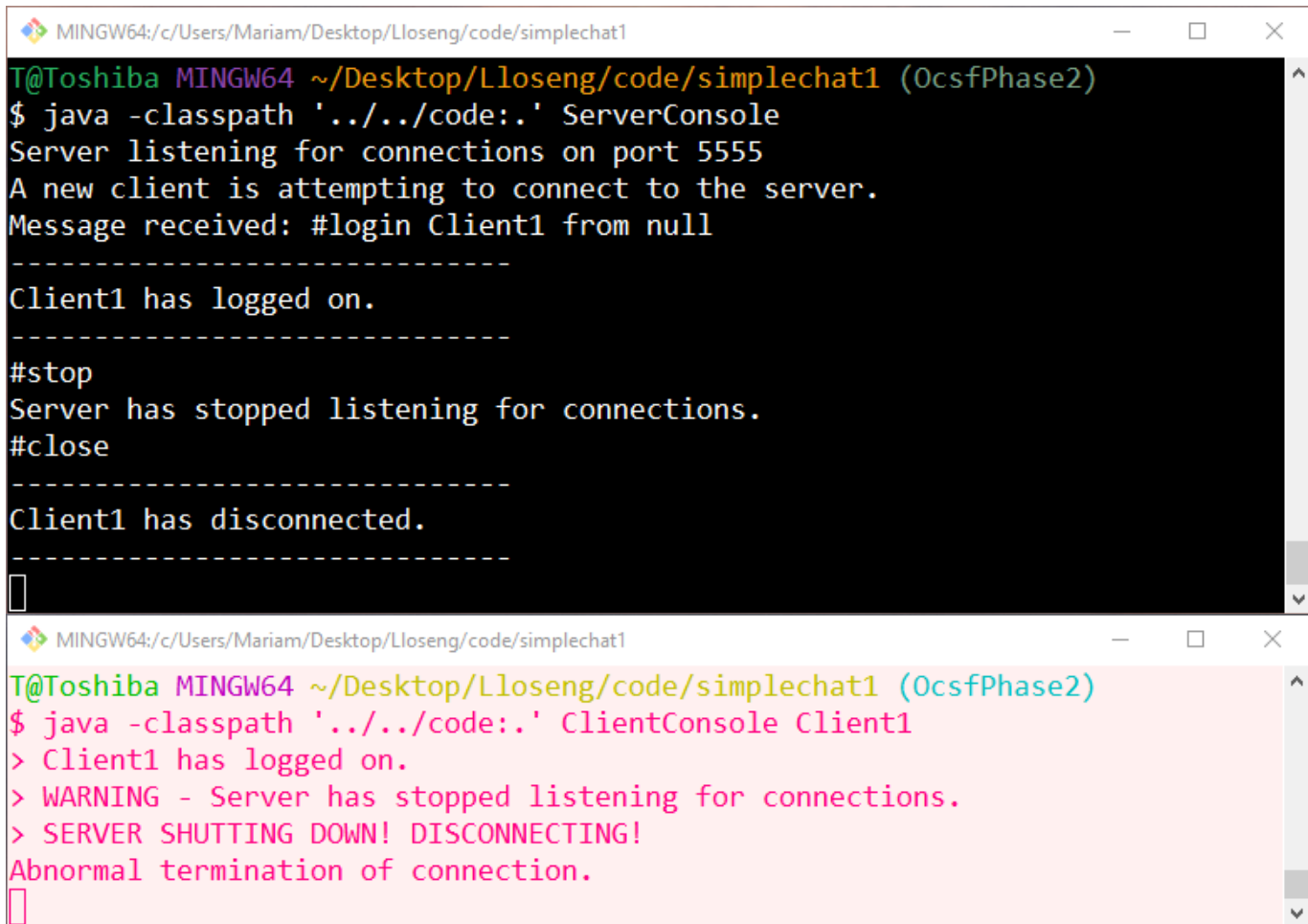
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client1
> Client1 has logged on.
> WARNING - Server has stopped listening for connections.
Test 2008
> Client1: Test 2008
> Client3 has logged on.
> Client2 has logged on.

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client2
> Client3 has logged on.
> Client2 has logged on.

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client3
> Client3 has logged on.
> Client2 has logged on.

```


2009 (1)

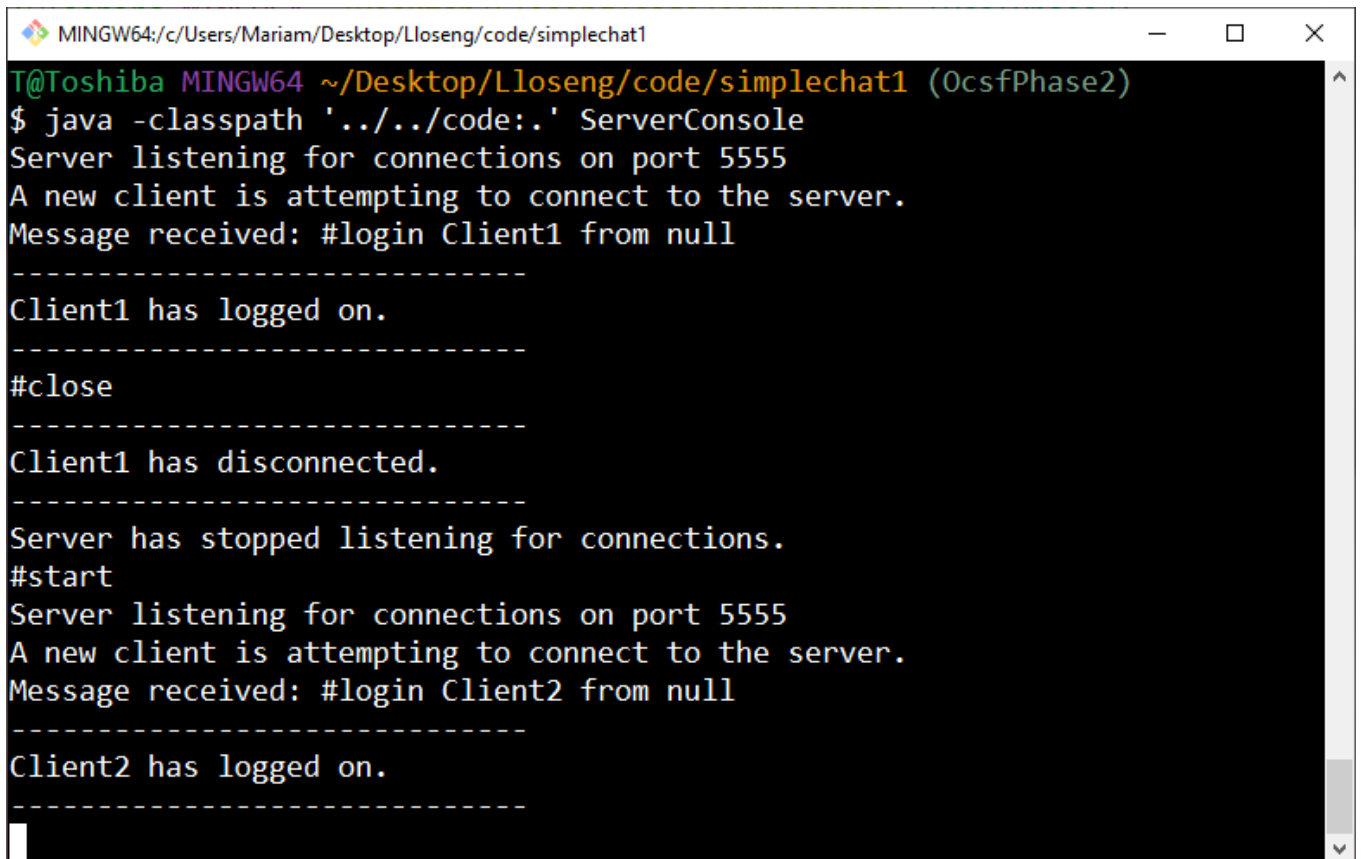


The image shows two screenshots of a Windows command prompt window. The title bar indicates the path is 'MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1'. The first screenshot shows the server console output: it starts by listening on port 5555, receives a login message from 'Client1', prints 'Client1 has logged on.', and then responds to '#stop' and '#close' commands. The second screenshot shows the client console output: it connects to the server, prints 'Client1 has logged on.', receives a warning that the server has stopped listening, and then prints 'Abnormal termination of connection.'.

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Client1 from null
-----
Client1 has logged on.
-----
#stop
Server has stopped listening for connections.
#close
-----
Client1 has disconnected.
-----

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client1
> Client1 has logged on.
> WARNING - Server has stopped listening for connections.
> SERVER SHUTTING DOWN! DISCONNECTING!
Abnormal termination of connection.
```

2009 (2)



The image shows a screenshot of a Windows command prompt window with the same title bar as the previous ones. The output shows the server console running. It listens on port 5555, receives a login from 'Client1', prints 'Client1 has logged on.', and responds to '#close'. Then, after printing 'Client1 has disconnected.', it receives a '#start' command, restarts listening on port 5555, receives a login from 'Client2', and prints 'Client2 has logged on.'.

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Client1 from null
-----
Client1 has logged on.
-----
#close
-----
Client1 has disconnected.
-----
#start
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Client2 from null
-----
Client2 has logged on.
-----
```



```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:.' ClientConsole Client1
> Client1 has logged on.
> SERVER SHUTTING DOWN! DISCONNECTING!
Abnormal termination of connection.

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:.' ClientConsole Client2
> Client2 has logged on.
```

2010

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:.' ClientConsole Client1
Cannot open connection. Awaiting command.
#quit
Connection closed.

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$
```

2011

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:.' ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Client1 from null
-----
Client1 has logged on.
-----
Message received: #logoff from Client1
-----
Client1 has disconnected.
-----

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:.' ClientConsole Client1
> Client1 has logged on.
#logoff
Connection closed.
```

2012

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client1
Cannot open connection. Awaiting command.
#sethost localhost
Host set to: localhost.
#setport 1234
Port set to: 1234.
```

2013

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ServerConsole 1234
Server listening for connections on port 1234
```

2014 (do not have a second computer)

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ServerConsole 1234
Server listening for connections on port 1234
A new client is attempting to connect to the server.
Message received: #login Client1 from null
-----
Client1 has logged on.
-----

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client1 localhost 1234
> Client1 has logged on.
```

```
MINGW64; c:/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../code:.' ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Client1 from null
-----
Client1 has logged on.
-----
A new client is attempting to connect to the server.
Message received: #login Client2 from null
-----
Client2 has logged on.
-----
#close
Server has stopped listening for connections.
-----
Client1 has disconnected.
-----
Client2 has disconnected.
-----
#setport 1234
Port set to: 1234.
#start
Server listening for connections on port 1234
A new client is attempting to connect to the server.
Message received: #login Client1 from null
-----
Client1 has logged on.
-----
A new client is attempting to connect to the server.
Message received: #login Client2 from null
-----
Client2 has logged on.
-----
#quit
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$
```



```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client1
> Client1 has logged on.
> Client2 has logged on.
> SERVER SHUTTING DOWN! DISCONNECTING!
Abnormal termination of connection.
#setport 1234
Port set to: 1234.
#login Client1
> Client1 has logged on.
> Client2 has logged on.
Abnormal termination of connection.

```

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client2
> Client2 has logged on.
> SERVER SHUTTING DOWN! DISCONNECTING!
> Client1 has disconnected.
Abnormal termination of connection.
#setport 1234
Port set to: 1234.
#login Client2
> Client2 has logged on.
Abnormal termination of connection.

```

2016 (do not have a second computer)


```

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Client1 from null
-----
Client1 has logged on.
-----
A new client is attempting to connect to the server.
Message received: #login Client2 from null
-----
Client2 has logged on.
-----
A new client is attempting to connect to the server.
Message received: #login Client3 from null
-----
Client3 has logged on.
-----
Message received: #quit from Client1
-----
Client1 has disconnected.
-----
Message received: #logoff from Client2
-----
Client2 has disconnected.
-----

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client1
> Client1 has logged on.
> Client2 has logged on.
> Client3 has logged on.
#quit
Connection closed.

T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$

MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath '../..code:..' ClientConsole Client2
> Client2 has logged on.
> Client3 has logged on.
> Client1 has disconnected.
#logoff
Connection closed.

```

A screenshot of a MINGW64 terminal window. The title bar shows the path 'MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1'. The terminal content shows a user prompt 'T@Toshiba' followed by the command 'java -classpath ../../code:. ClientConsole Client3'. The output consists of three lines: 'Client3 has logged on.', 'Client1 has disconnected.', and 'Client2 has disconnected.'. A green cursor is visible at the end of the last line.

```
MINGW64:/c/Users/Mariam/Desktop/Lloseng/code/simplechat1
T@Toshiba MINGW64 ~/Desktop/Lloseng/code/simplechat1 (OcsfPhase2)
$ java -classpath ../../code:. ClientConsole Client3
> Client3 has logged on.
> Client1 has disconnected.
> Client2 has disconnected.
```

2018-2019 (do not have a second computer)