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Note: I had incorrectly placed the main method in the EchoServer class instead of the ServerConsole class, which is why in the screenshots you will notice that I compiled the file using the EchoServer class. I have made the changes in the java file.

Test2002

```
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java ClientConsole
No login ID specified. Connection aborted.
Error: Can't setup connection! Terminating client.
```

Test2003

```
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java ClientConsole 123456789
Error: Can't setup connection! Terminating client.
```

Test 2004

```
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java EchoServer
Server listening for connections on port 5555
A new client is attempting to connect to the server
Message received: #login 12345 from 127.0.0.1 (127.0.0.1)
```

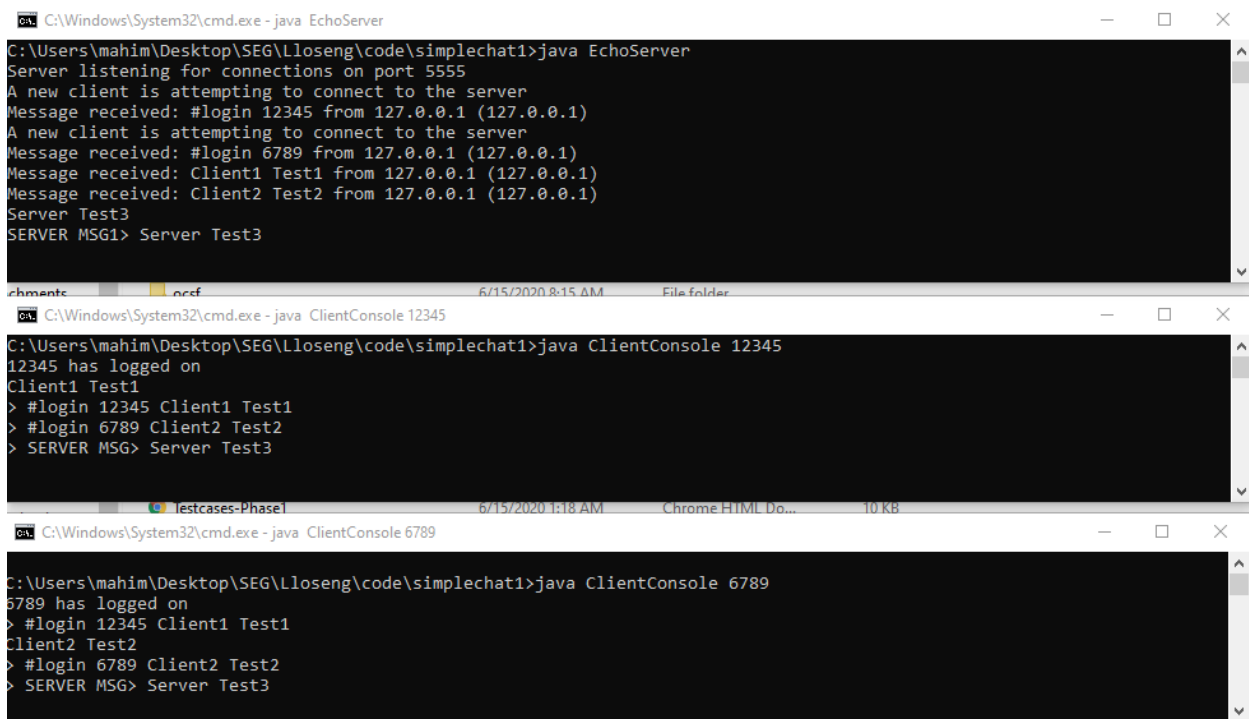
```
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java ClientConsole 12345
12345 has logged on
```

Test2005

```
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java EchoServer
Server listening for connections on port 5555
A new client is attempting to connect to the server
Message received: #login 12345 from 127.0.0.1 (127.0.0.1)
Message received: Test1 on client1 from 127.0.0.1 (127.0.0.1)
```

```
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java ClientConsole 12345
12345 has logged on
Test1 on client1
> #login 12345 Test1 on client1
```

## Test 2006



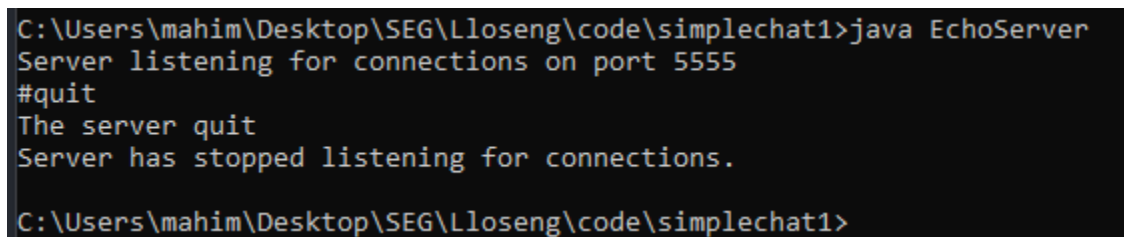
The image shows three overlapping terminal windows. The top window is titled 'C:\Windows\System32\cmd.exe - java EchoServer' and shows the server's output: 'Server listening for connections on port 5555', followed by two client login attempts from 127.0.0.1, and then messages from 'Client1 Test1' and 'Client2 Test2'. The bottom-left window is titled 'C:\Windows\System32\cmd.exe - java ClientConsole 12345' and shows the client's input: '12345 has logged on', 'Client1 Test1', and then the same login and message commands. The bottom-right window is titled 'C:\Windows\System32\cmd.exe - java ClientConsole 6789' and shows the client's input: '6789 has logged on', the same login command, and then the message command. All windows show the prompt 'SERVER MSG>' or 'SERVER MSG'.

```
C:\Windows\System32\cmd.exe - java EchoServer
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java EchoServer
Server listening for connections on port 5555
A new client is attempting to connect to the server
Message received: #login 12345 from 127.0.0.1 (127.0.0.1)
A new client is attempting to connect to the server
Message received: #login 6789 from 127.0.0.1 (127.0.0.1)
Message received: Client1 Test1 from 127.0.0.1 (127.0.0.1)
Message received: Client2 Test2 from 127.0.0.1 (127.0.0.1)
Server Test3
SERVER MSG> Server Test3

C:\Windows\System32\cmd.exe - java ClientConsole 12345
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java ClientConsole 12345
12345 has logged on
Client1 Test1
> #login 12345 Client1 Test1
> #login 6789 Client2 Test2
> SERVER MSG> Server Test3

C:\Windows\System32\cmd.exe - java ClientConsole 6789
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java ClientConsole 6789
6789 has logged on
> #login 12345 Client1 Test1
Client2 Test2
> #login 6789 Client2 Test2
> SERVER MSG> Server Test3
```

## Test2007



The image shows a terminal window titled 'C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java EchoServer'. The output shows the server listening on port 5555, receiving a '#quit' command, and then responding with 'The server quit' and 'Server has stopped listening for connections.' The prompt returns to 'C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>'.

```
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java EchoServer
Server listening for connections on port 5555
#quit
The server quit
Server has stopped listening for connections.
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>
```

## Test2008

```

C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java EchoServer
Server listening for connections on port 5555
A new client is attempting to connect to the server
Message received: #login 12345 from 127.0.0.1 (127.0.0.1)
#stop
Server has stopped listening for connections.
Message received: test1 from 127.0.0.1 (127.0.0.1)
#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
A new client is attempting to connect to the server
A new client is attempting to connect to the server
Message received: #login 1 from 127.0.0.1 (127.0.0.1)
Message received: #login 23 from 127.0.0.1 (127.0.0.1)
Message received: #login 4 from 127.0.0.1 (127.0.0.1)
Message received: #login 99 from 127.0.0.1 (127.0.0.1)

```

Test2009

```

C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java EchoServer
Server listening for connections on port 5555
A new client is attempting to connect to the server
Message received: #login 12345 from 127.0.0.1 (127.0.0.1)
#stop
Server has stopped listening for connections.
#close
Client is disconnected
Unexpected error while reading from console!

C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>

C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java ClientConsole 12345
12345 has logged on
> Server has shutdown
> Connection closed.

C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>_

```

```
C:\Windows\System32\cmd.exe - java EchoServer
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java EchoServer
Server listening for connections on port 5555
A new client is attempting to connect to the server
Message received: #login 12345 from 127.0.0.1 (127.0.0.1)
#stop
Server has stopped listening for connections.
#start
Server listening for connections on port 5555

C:\Windows\System32\cmd.exe - java ClientConsole 12345
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java ClientConsole 12345
12345 has logged on
```

Test2010

```
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java ClientConsole 12345
12345 has logged on
#quit
> Connection closed.

C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>
```

Test2011

```
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java ClientConsole 12345
12345 has logged on
#logoff
> Connection closed.
```

Test2012

```
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java ClientConsole 12345
12345 has logged on
#logoff
> Connection closed.
#sethost localhost
Host set to : localhost
#setport 1234
Port set to : 1234
```

Test2013

```
C:\Users\mahim\Desktop\SEG\Lloseng\code\simplechat1>java EchoServer 1234  
Server listening for connections on port 1234
```