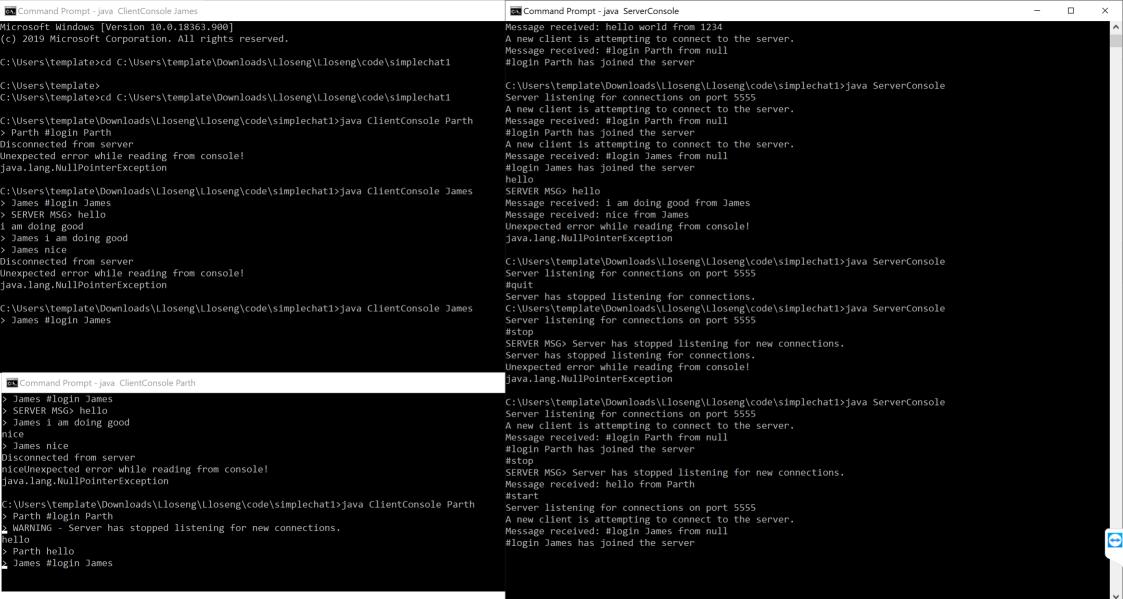
```
Command Prompt
Message received: hello world from 1234
A new client is attempting to connect to the server.
Message received: #login Parth from null
#login Parth has joined the server
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Parth from null
#login Parth has joined the server
A new client is attempting to connect to the server.
Message received: #login James from null
#login James has joined the server
hello
SERVER MSG> hello
Message received: i am doing good from James
Message received: nice from James
Unexpected error while reading from console!
java.lang.NullPointerException
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ServerConsole
Server listening for connections on port 5555
#quit
Server has stopped listening for connections.
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>
```



Command Prompt - java ClientConsole Parth	_	\times
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole Parth Parth #login Parth WARNING - Server has stopped listening for new connections. Hello Parth hello James #login James Unexpected error while reading from console! Java.lang.NullPointerException		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole Parth > Parth #login Parth > WARNING - Server has stopped listening for new connections. > SERVER SHUTTING DOWN! DISCONNECTING! > Abnormal termination of connection. Disconnected from server		
Command Prompt - java ServerConsole	_	×
Message received: hello from Parth #start Gerver listening for connections on port 5555 A new client is attempting to connect to the server. Message received: #login James from null #login James has joined the server Dames left the server Unexpected error while reading from console! Java.lang.NullPointerException		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ServerConsole Server listening for connections on port 5555		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ServerConsole Server listening for connections on port 5555 A new client is attempting to connect to the server. Message received: #login Parth from null #login Parth has joined the server #stop SERVER MSG> Server has stopped listening for new connections. #close Parth left the server		

```
Disconnected from server
Unexpected error while reading from console!
java.lang.NullPointerException
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole Parth
> Parth #login Parth
> SERVER SHUTTING DOWN! DISCONNECTING!
> Abnormal termination of connection.
Disconnected from server
#start
> Could not send message to server. Terminating client.
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole Parth
> Parth #login Parth
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Parth from null
#login Parth has joined the server
tstop
SERVER MSG> Server has stopped listening for new connections.
tclose
Parth left the server
*Unexpected error while reading from console!
java.lang.NullPointerException
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ServerConsole
Server listening for connections on port 5555
new client is attempting to connect to the server.
Message received: #login Parth from null
#login Parth has joined the server
tclose
Parth left the server
#start
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Parth from null
#login Parth has joined the server
```

П

Command Prompt - java ClientConsole Parth

Command Prompt	_	×
Disconnected from server #start > Could not send message to server. Terminating client.		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole Parth > Parth #login Parth Unexpected error while reading from console! java.lang.NullPointerException		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole Parth Cannot open connection. Awaiting command. #quit Unexpected error while reading from console! java.lang.NullPointerException		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>		

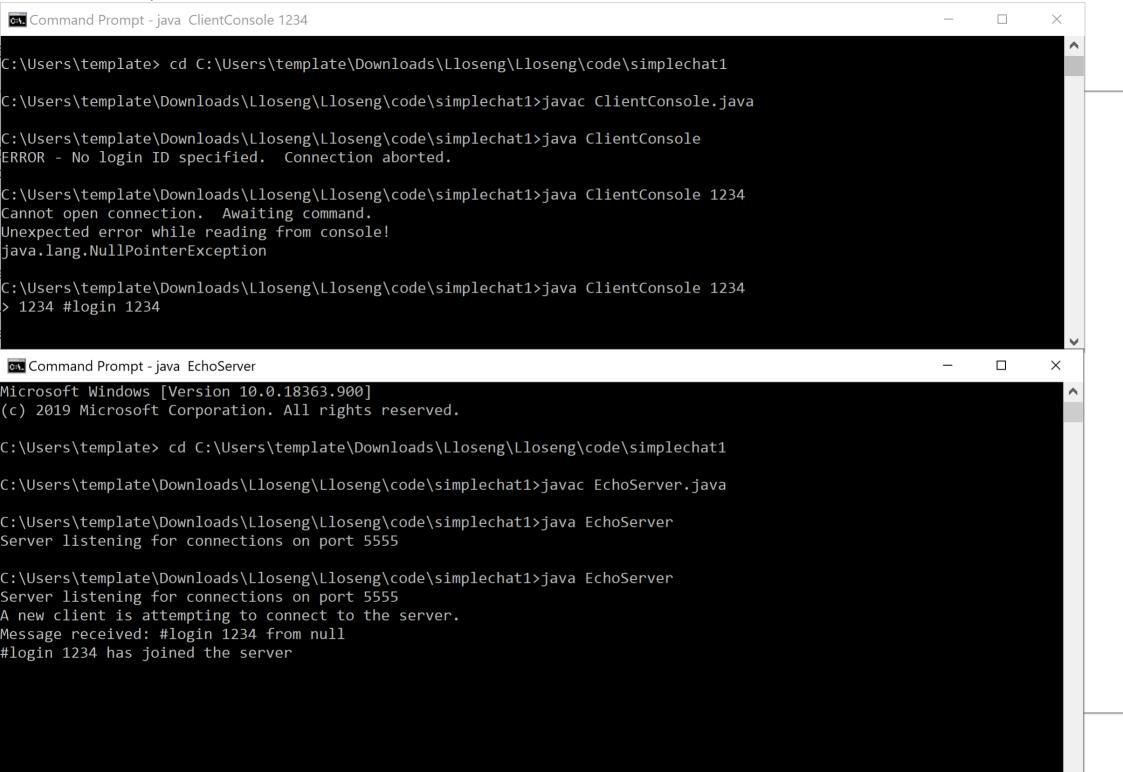
```
Command Prompt - java ClientConsole Parth
                                                                                                                  C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole Parth
> Parth #login Parth
Unexpected error while reading from console!
java.lang.NullPointerException
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole Parth
Cannot open connection. Awaiting command.
#quit
Unexpected error while reading from console!
java.lang.NullPointerException
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole Parth
> Parth #login Parth
#logoff
Parth left the server
#start
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Parth from null
#login Parth has joined the server
Parth left the server
Unexpected error while reading from console!
java.lang.NullPointerException
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Parth from null
#login Parth has joined the server
Parth left the server
```

```
Command Prompt - iava ServerConsole 1234
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Parth from null
#login Parth has joined the server
#close
Parth left the server
#start
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Parth from null
#login Parth has joined the server
Parth left the server
Unexpected error while reading from console!
java.lang.NullPointerException
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ServerConsole
Server listening for connections on port 5555
A new client is attempting to connect to the server.
Message received: #login Parth from null
#login Parth has joined the server
Parth left the server
Unexpected error while reading from console!
java.lang.NullPointerException
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ServerConsole 1234
Server listening for connections on port 1234
```

Command Prompt - java EchoServer	_	×
Microsoft Windows [Version 10.0.18363.900] (c) 2019 Microsoft Corporation. All rights reserved.		^
C:\Users\template> cd C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>javac EchoServer.java		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java EchoServer Server listening for connections on port 5555		

Command Prompt	_	×
Microsoft Windows [Version 10.0.18363.900] (c) 2019 Microsoft Corporation. All rights reserved.		^
C:\Users\template> cd C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>javac ClientConsole.java		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole ERROR - No login ID specified. Connection aborted.		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>		

Command Prompt - java ClientConsole 1234	_	×
Microsoft Windows [Version 10.0.18363.900] (c) 2019 Microsoft Corporation. All rights reserved.		
C:\Users\template> cd C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>javac ClientConsole.java		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole ERROR - No login ID specified. Connection aborted.		
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole 1234 Cannot open connection. Awaiting command.		



```
Command Prompt - java ClientConsole 1234
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>javac ClientConsole.java
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole
ERROR - No login ID specified. Connection aborted.
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole 1234
Cannot open connection. Awaiting command.
Unexpected error while reading from console!
java.lang.NullPointerException
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java ClientConsole 1234
> 1234 #login 1234
hello world
> 1234 hello world
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>javac EchoServer.java
C:\Users\template\Downloads\Lloseng\Lloseng\code\simplechat1>java EchoServer
Server listening for connections on port 5555
C:\Users\template\Downloads\Lloseng\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 1234 from null
#login 1234 has joined the server
Message received: hello world from 1234
```

