

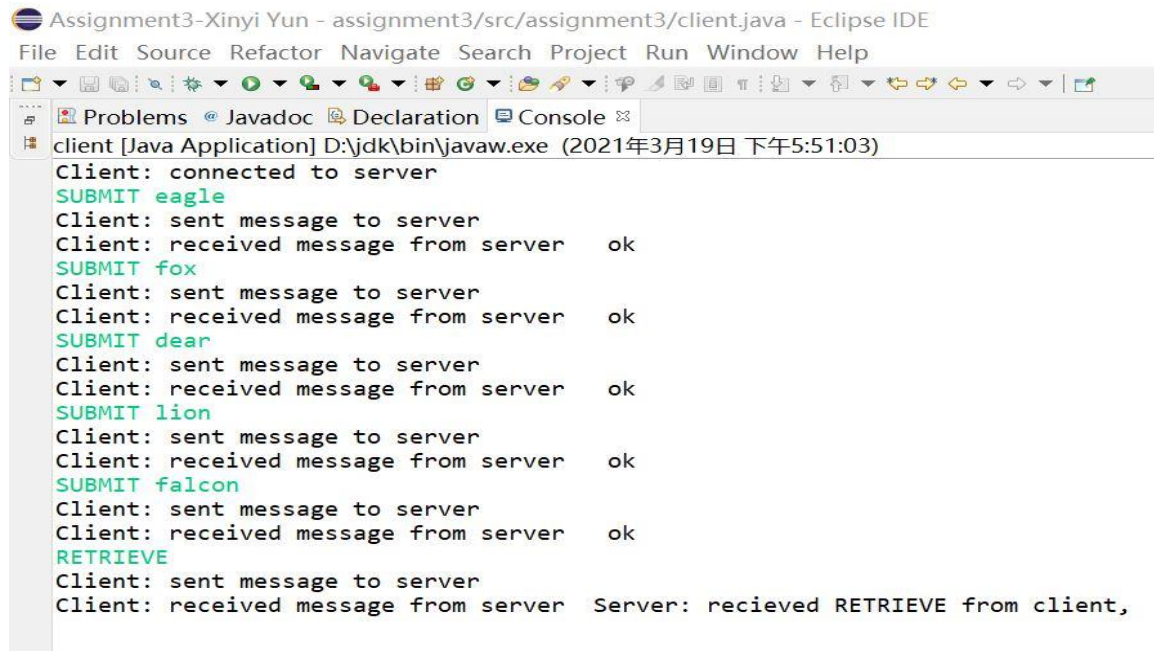
ASSIGNMENT 3

Name :Xinyi Yun

StudentID: 20230540

Output screenshot:

"SUBMIT" & "RETRIEVE" (normal situation) :

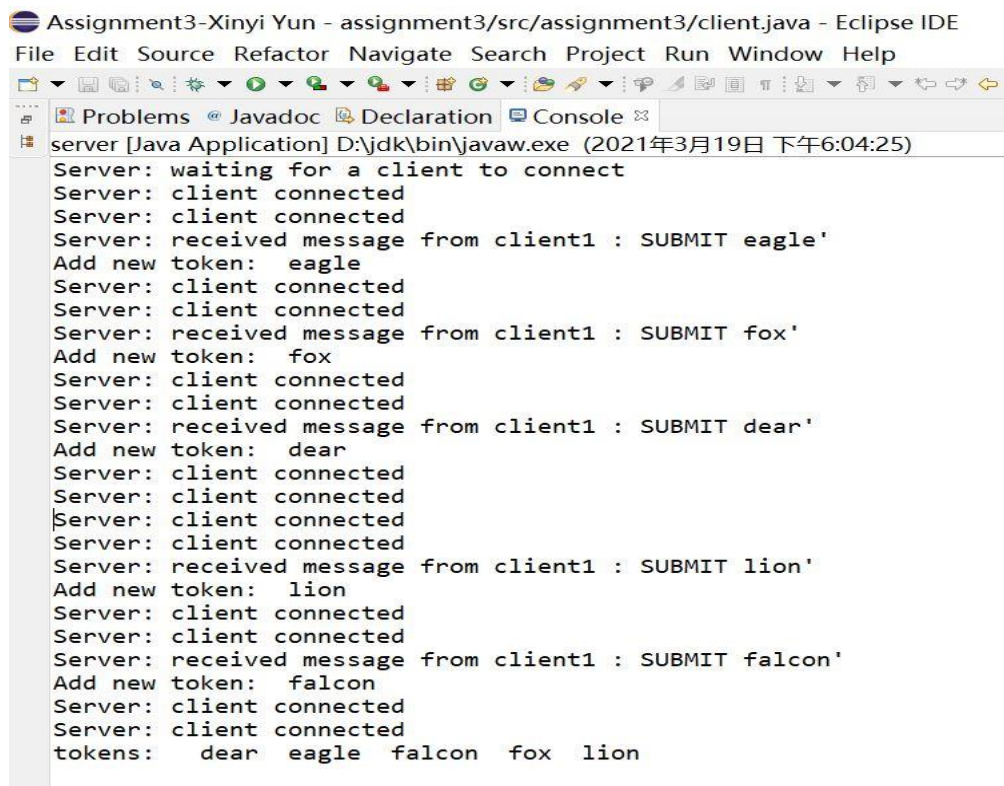


Assignment3-Xinyi Yun - assignment3/src/assignment3/client.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

client [Java Application] D:\jdk\bin\javaw.exe (2021年3月19日 下午5:51:03)

```
Client: connected to server
SUBMIT eagle
Client: sent message to server
Client: received message from server    ok
SUBMIT fox
Client: sent message to server
Client: received message from server    ok
SUBMIT dear
Client: sent message to server
Client: received message from server    ok
SUBMIT lion
Client: sent message to server
Client: received message from server    ok
SUBMIT falcon
Client: sent message to server
Client: received message from server    ok
RETRIEVE
Client: sent message to server
Client: received message from server    Server: recieved RETRIEVE from client,
```



Assignment3-Xinyi Yun - assignment3/src/assignment3/client.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

server [Java Application] D:\jdk\bin\javaw.exe (2021年3月19日 下午6:04:25)

```
Server: waiting for a client to connect
Server: client connected
Server: client connected
Server: received message from client1 : SUBMIT eagle'
Add new token:  eagle
Server: client connected
Server: client connected
Server: received message from client1 : SUBMIT fox'
Add new token:  fox
Server: client connected
Server: client connected
Server: received message from client1 : SUBMIT dear'
Add new token:  dear
Server: client connected
Server: client connected
Server: client connected
Server: client connected
Server: received message from client1 : SUBMIT lion'
Add new token:  lion
Server: client connected
Server: client connected
Server: received message from client1 : SUBMIT falcon'
Add new token:  falcon
Server: client connected
Server: client connected
tokens:  dear eagle falcon fox lion
```

When the token is *empty* & "QUIT" request:

```
Assignment3-Xinyi Yun - assignment3/src/assignment3/client.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
client [Java Application] D:\jdk\bin\javaw.exe (2021年3月19日 下午6:16:
Client: connected to server
RETRIEVE
Client: sent message to server
Client: received message from server ERROR
```

```
client [Java Application] D:\jdk\bin\javaw.exe (2021年3月19日 下午6:16:
Client: connected to server
QUIT
Client: sent message to server
Client: closed connection to server
```

Server

```
Assignment3-Xinyi Yun - assignment3/src/assignment3/client.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
server [Java Application] D:\jdk\bin\javaw.exe (2021年3月19日 下午6:16:
Server: waiting for a client to connect
Server: client connected
Server: client connected
ERROR: the tokensList is empty
Server: client connected
Server: client connected
Server: received message from client1 : SUBMIT bear'
Add new token: bear
Server: client connected
Server: client connected
connecting 1 clients
Server: connection to client closed
```

When it has 2 clients & submitting more than 10 tokens:

client 2:

Problems @ Javadoc Declaration Console History

client2 [Java Application] D:\jdk\bin\javaw.exe (2021年3月23日 下午7:06:42)

```

Client 2 connected to server
SUBMIT qDOG
Client 2 : sent message to server
Client 2 : received message from server    ok
SUBMIT wCAT
Client 2 : sent message to server
Client 2 : received message from server    ok
SUBMIT eDOG
Client 2 : sent message to server
Client 2 : received message from server    ok
SUBMIT aCAT
Client 2 : sent message to server
Client 2 : received message from server    ok
SUBMIT sDOG
Client 2 : sent message to server
Client 2 : received message from server    ok
SUBMIT fFISH
Client 2 : sent message to server
Client 2 : received message from server    ok

```

Client 1:

```

client 1 connected to server
SUBMIT Dlion
client 1 : sent message to server
client 1 : received message from server    ok
SUBMIT Geagle
client 1 : sent message to server
client 1 : received message from server    ok
SUBMIT zLion
client 1 : sent message to server
client 1 : received message from server    ok
SUBMIT xFox
client 1 : sent message to server
client 1 : received message from server    ok
SUBMIT iLion
client 1 : sent message to server
client 1 : received message from server    ERROR
RETRIEVE

```

They use the *same* tokenList:

iLion is the **11th**, so it *couldn't* add into the tokenList


```
Problems @ Javadoc Declaration Console History
server [Java Application] D:\jdk\bin\javaw.exe (2021年3月23日 下午7:06:18)
Server: waiting for a client to connect
Server: client connected
Server: client connected
Server: received message from client : SUBMIT qDOG'
Add new token: qDOG
Server: received message from client : SUBMIT wCAT'
Add new token: wCAT
Server: received message from client : SUBMIT eDOG'
Add new token: eDOG
Server: received message from client : SUBMIT aCAT'
Add new token: aCAT
Server: received message from client : SUBMIT sDOG'
Add new token: sDOG
Server: received message from client : SUBMIT fFISH'
Add new token: fFISH
Server: client connected
Server: client connected
Server: received message from client : SUBMIT Dlion'
Add new token: Dlion
Server: received message from client : SUBMIT Geagle'
Add new token: Geagle
Server: received message from client : SUBMIT zLion'
Add new token: zLion
Server: received message from client : SUBMIT xFox'
Add new token: xFox
ERROR :List is full
ERROR :List is full
tokens: Dlion Geagle aCAT eDOG fFISH qDOG sDOG wCAT xFox zLion
```

This is sorted uppercase(A-Z) to lowercase(a-z)