

First Mini Program

Some screenshots

Multi-client Chatroom

Hello Message

From login client:

```
$ ./client nplinux0.cs.nctu.edu.tw 7001  
[Server] Hello, anonymous! From: 140.113.168.190/35790
```

From other clients:

```
[Server] Someone is coming!
```

Who Message

```
[Server] Hello, anonymous! From: 140.113.168.190/35830  
who
```

```
[Server] anonymous 140.113.168.190/35830 ->me
```

```
[Server] anonymous 140.113.168.190/35826
```

```
[Server] anonymous 140.113.168.190/35828
```

Change Username Message

From client that changes name:

```
name somebody  
[Server] You're now known as somebody.
```

From other clients:

```
[Server] anonymous is now known as somebody.
```

Private Message - tell

From Client "ITNP":

```
[Server] anonymous is now known as somebody.  
tell somebody Hi  
[Server] SUCCESS: Your message has been sent.  
[Server] somebody tell you hello
```

From Client "somebody":

```
name somebody  
[Server] You're now known as somebody.  
[Server] ITNP tell you Hi  
tell ITNP hello  
[Server] SUCCESS: Your message has been sent.
```

Broadcast Message - yell

Yelling client:

```
yell Goodbye  
[Server] somebody yell Goodbye
```

Other clients:

```
[Server] somebody yell Goodbye
```

Error Command

```
ls
```

```
[Server] ERROR: Error command.
```

Log Out Message - exit

When client "ITNP" executes ``exit`` command, other clients should see the message below:

```
[Server] ITNP is offline.
```


Overall Snapshot

```
$ ./client nplinux0.cs.nctu.edu.tw 7001
[Server] Hello, anonymous! From: 140.113.168.190/35790
who
[Server] anonymous 140.113.168.190/35790 ->me
tell somebody Hello
[Server] ERROR: You are anonymous.
name itnp123
[Server] ERROR: Username can only consists of 2~12 English letters.
name ITNP
[Server] You're now known as ITNP.
who
[Server] ITNP 140.113.168.190/35790 ->me
tell somebody Hello Again!
[Server] ERROR: The receiver doesn't exist.
yell Hello World
[Server] ITNP yell Hello World
[Server] Someone is coming!
[Server] anonymous is now known as somebody.
tell somebody Hi
[Server] SUCCESS: Your message has been sent.
[Server] somebody tell you hello
[Server] somebody yell Goodbye
[Server] somebody is offline.
who
[Server] ITNP 140.113.168.190/35790 ->me
exit
```



1st client

2nd client



```
$ ./client nplinux0.cs.nctu.edu.tw 7001
[Server] Hello, anonymous! From: 140.113.168.190/35792
name somebody
[Server] You're now known as somebody.
[Server] ITNP tell you Hi
tell ITNP hello
[Server] SUCCESS: Your message has been sent.
yell Goodbye
[Server] somebody yell Goodbye

exit
```