-> create a new room called second

```
kjs@kjs:~/iot/prob2$ ./chat_client 192.168.0.8 20000 test1

Follow this guide line
1.input [q or Q] if you want to quit program
2.input [create] if you want to create new room
3.input [existed only room Id not room Name] if you want to enter alread existed room
3.ex) [1] not [hello]
0(roomId) -> first(roomName)
create
enter room name : second
Selectd room :second
```

```
Welcome to second room!!!

1.Input [q or Q] if you want to leave this room.

2.Input [#file] if you want to send file.

3.when you receive msg about file transfer request from server.

3.Input [#y] or [#Y] if you want to receive file. Otherwise, input [#n] or [#N] test1 has joined

There is no member in this room.

test2 has joined

test3 has joined
```

## Nick name test2, test3 display

->When test1 creates new room in a situation where only the first room existed, the newly updated room list is sent to test2 and test3 again. Both clients select and enter the second room just created. Information about users participating in the room and new user are all received from the server.

```
Follow this guide line
                                                              Follow this guide line
1.input [q or Q] if you want to quit program
2.input [create] if you want to create new room
                                                              1.input [q or Q] if you want to quit progr
3.input [existed only room Id not room Name] if yo
                                                              2.input [create] if you want to create new
u want to enter alread existed room
3.ex) [1] not [hello]
0(roomId) -> first
                                                              3.input [existed only room Id not room Nam
                 first(roomName)
                                                              e] if you want to enter alread existed roo
Follow this guide line
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2.input [create] if you want to create new room
3.input [existed only room Id not room Name] if yo
                                                              3.ex) [1] not [hello]
                                                              0(roomId) -> first(roomName)
                                                              Follow this guide line
u want to enter alread existed room
                                                              1.input [q or Q] if you want to quit progr
3.ex) [1] not [hello]
0(roomId) ->
                 first(roomName)
                                                              2.input [create] if you want to create new
1(roomId) ->
                  second(roomName)
                                                              3.input [existed only room Id not room Nam
                                                              e] if you want to enter alread existed roo
selectd room :second
Welcome to second room!!!
                                                              3.ex) [1] not [hello]
1.Input [q or Q] if you want to leave this room. •
                                                              0(roomId) ->
                                                                                first(roomName)
2.Input [#file] if you want to send file.
                                                              1(roomId) ->
                                                                                second(roomName)
3.when you receive msg about file transfer request
from server.
                                                              selectd room :second
```

```
selectd room :second
                                               Welcome to second room!!!
Welcome to second room!!!
                                                1.Input [q or Q] if you want to leave th
1.Input [q or Q] if you want to leave this
                                                is room.
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3.when you receive msg about file transfer
                                                3.when you receive msg about file transf
request from server.
                                                er request from server.
3.Input [#y] or [#Y] if you want to receiv
                                                3.Input [#y] or [#Y] if you want to rece
                                                ive file. Otherwise, input [#n] or [#N]
e file. Otherwise, input [#n] or [#N]
test1 has joined
                                                test1 has joined
test2 has joined
'test1' welcome you!!
                                                test2 has joined
                                                test3 has joined
                                                'test1' 'test2' welcome you!!
test3 has joined
```

-.>have a conversation

```
Welcome to second room!!!

1.Input [q or Q] if you want to leave this room.

2.Input [#file] if you want to send file.

3.when you receive msg about file transfer request from server.

3.Input [#y] or [#Y] if you want to receive file. Otherwise, input [#n] or [#N] test1 has joined

There is no member in this room.

test2 has joined

test3 has joined

hello

[test1] : hello

[test2] : hi

[test3] : nice to meet us
```

#### Nick name test2, test3 display

-> have a conversation

```
selectd room :second
                                              Welcome to second room!!!
Welcome to second room!!!
                                               1.Input [q or Q] if you want to leave th
1.Input [q or Q] if you want to leave this
                                               is room.
                                               2.Input [#file] if you want to send file
2.Input [#file] if you want to send file.
3.when you receive msg about file transfer
                                              3.when you receive msg about file transf
request from server.
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3.Input [#y] or [#Y] if you want to receiv
                                              3.Input [#y] or [#Y] if you want to rece
e file. Otherwise, input [#n] or [#N]
                                              ive file. Otherwise, input [#n] or [#N]
test1 has joined
                                              test1 has joined
test2 has joined
                                              test2 has joined
'test1' welcome you!!
                                               test3 has joined
                                               'test1' 'test2' welcome you!!
test3 has joined
                                               [test1] : hello
[test1] : hello
hi
                                               [test2] : hi
                                              nice to meet us
[test2] : hi
[test3] : nice to meet us
                                               [test3] : nice to meet us
```

->Upload the file to the server

```
hello
[test1] : hello
[test2] : hi
[test3] : nice to meet us
#file
enter file name : lake.jpg
port:84upload shutdown: read_some: End of file [asio.misc:2]
file upload done
```

#### Nick name test2 test3 display

-> After the file is uploaded, the server asks all clients participating in the room to download the file uploaded by test1 from the server.

```
3.when you receive msg about file transfer
                                               er request from server.
                                               3.Input [#y] or [#Y] if you want to rece
request from server.
                                               ive file. Otherwise, input [#n] or [#N]
3.Input [#y] or [#Y] if you want to receiv
e file. Otherwise, input [#n] or [#N]
                                               test1 has joined
test1 has joined
                                               test2 has joined
test2 has joined
                                               test3 has joined
                                               'test1' 'test2' welcome you!!
'test1' welcome you!!
test3 has joined
                                               [test1] : hello
                                               [test2] : hi
[test1] : hello
hi
                                               nice to meet us
[test2] : hi
                                               [test3] : nice to meet us
[test3] : nice to meet us
                                               !!!'test1' want to transfer file 'lake.j
!!!'test1' want to transfer file 'lake.jpg
                                               pg' to you.
' to you.
                                               !!!If you want to receive this file, ple
!!!If you want to receive this file, pleas
                                               ase input #y(#Y) or otherwise, input #n(
e input #y(#Y) or otherwise, input #n(#N)
                                               #N)
```

-> It is possible to exchange conversations concurrently in the process of uploading and downloading files.

```
#file
enter file name : lake.jpg
port:84upload shutdown: read_some: End of file [asio.misc:2]
file upload done
hello
[test1] : hello
[test2] : hihihi
```

# Nick name test2 test3 display

-> It is possible to exchange conversations concurrently in the process of uploading and downloading files

```
test1 has joined
                                               test1 has joined
test2 has joined
                                               test2 has joined
'test1' welcome you!!
                                               test3 has joined
                                               'test1' 'test2' welcome you!!
test3 has joined
                                               [test1] : hello
[test1] : hello
                                               [test2] : hi
hi
[test2] : hi
                                               nice to meet us
[test3] : nice to meet us
                                               [test3] : nice to meet us
!!!'test1' want to transfer file 'lake.jpg
                                               !!!'test1' want to transfer file 'lake.j
                                               pg' to you.
!!!If you want to receive this file, pleas
                                               !!!If you want to receive this file, ple
e input #y(#Y) or otherwise, input #n(#N)
                                               ase input #y(#Y) or otherwise, input #n(
#y
[test1] : hello
                                               [test1] : hello
                                               [test2] : hihihi
hihihi
[test2] : hihihi
```

# Nick name test1 display

→ leave the room

# Nick name test2 test3 display

→ Server announces that test1 has left the room

```
test2 has joined
                                               test2 has joined
'test1' welcome you!!
                                               test3 has joined
                                               'test1' 'test2' welcome you!!
test3 has joined
                                               [test1] : hello
[test1] : hello
                                               [test2] : hi
[test2] : hi
                                               nice to meet us
                                               [test3] : nice to meet us
[test3] : nice to meet us
!!!'test1' want to transfer file 'lake.jpg
                                               !!!'test1' want to transfer file 'lake.j
                                               pg' to you.
' to you.
                                               !!!If you want to receive this file, ple
!!!If you want to receive this file, pleas
e input #y(#Y) or otherwise, input #n(#N)
                                               ase input #y(#Y) or otherwise, input #n(
[test1] : hello
                                               [test1] : hello
hihihi
                                               [test2] : hihihi
[test2] : hihihi
test1 has left this room.
                                               test1 has left this room.
```

### File uploaded in server and file downloaded in client 's side

