

# Bài tập Lập trình mạng ngày 08/05/2023

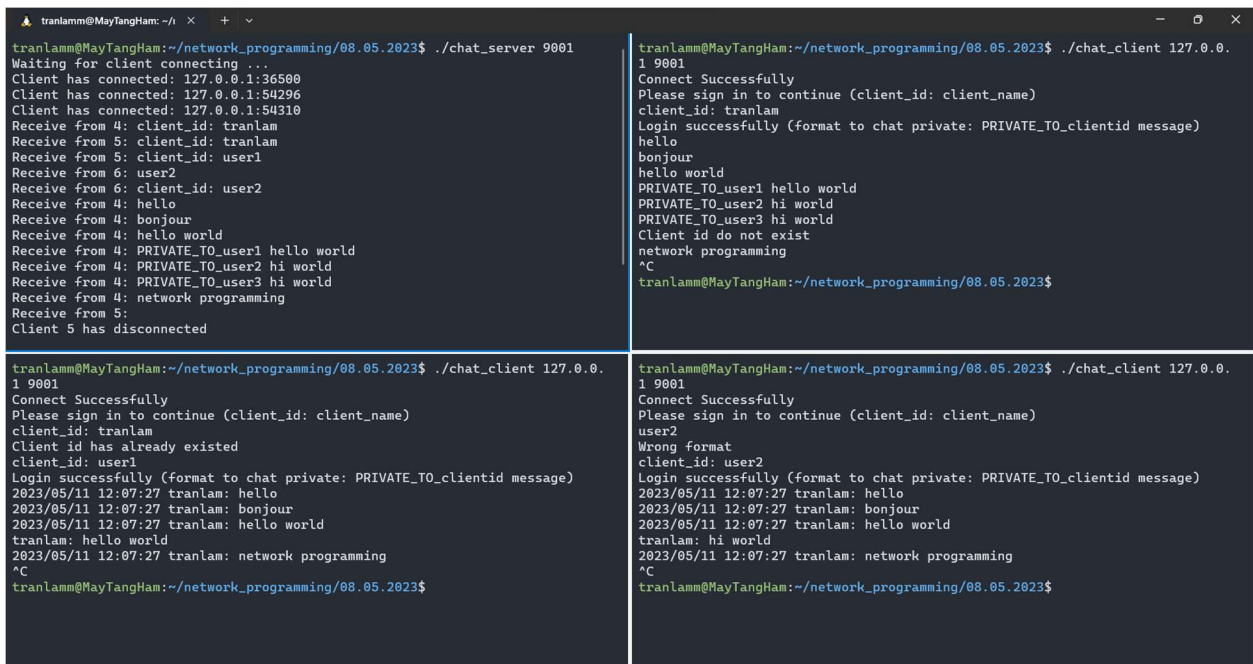
Trần Lâm – 20204759

IT4060 – 141337

Link Github:

[https://github.com/tranlamm/network\\_programming/tree/main/08.05.2023](https://github.com/tranlamm/network_programming/tree/main/08.05.2023)

## 1. Ảnh chạy thử bài 1 (Chat server sử dụng poll + private chat):



The image shows four terminal windows arranged in a 2x2 grid, demonstrating the execution of a chat server and client. The top-left window shows the server running on port 9001, receiving connections from clients at 127.0.0.1 and processing messages. The top-right window shows a client running on 127.0.0.1, connecting to the server and sending messages. The bottom-left window shows the client's internal state and message processing. The bottom-right window shows the client's output, displaying the received messages and the user's input.

```
tranlamm@MayTangHam: ~/network_programming/08.05.2023$ ./chat_server 9001
Waiting for client connecting ...
Client has connected: 127.0.0.1:36580
Client has connected: 127.0.0.1:54296
Client has connected: 127.0.0.1:54310
Receive from 4: client_id: tranlam
Receive from 5: client_id: tranlam
Receive from 5: client_id: user1
Receive from 6: user2
Receive from 6: client_id: user2
Receive from 4: hello
Receive from 4: bonjour
Receive from 4: hello world
Receive from 4: PRIVATE_TO_user1 hello world
Receive from 4: PRIVATE_TO_user2 hi world
Receive from 4: PRIVATE_TO_user3 hi world
Receive from 4: network programming
Receive from 5:
Client 5 has disconnected

tranlamm@MayTangHam: ~/network_programming/08.05.2023$ ./chat_client 127.0.0.1 9001
Connect Successfully
Please sign in to continue (client_id: client_name)
client_id: tranlam
Login successfully (format to chat private: PRIVATE_TO_clientid message)
hello
bonjour
hello world
PRIVATE_TO_user1 hello world
PRIVATE_TO_user2 hi world
PRIVATE_TO_user3 hi world
Client id do not exist
network programming
^C
tranlamm@MayTangHam: ~/network_programming/08.05.2023$

tranlamm@MayTangHam: ~/network_programming/08.05.2023$ ./chat_client 127.0.0.1 9001
Connect Successfully
Please sign in to continue (client_id: client_name)
client_id: tranlam
Client id has already existed
client_id: user1
Login successfully (format to chat private: PRIVATE_TO_clientid message)
2023/05/11 12:07:27 tranlam: hello
2023/05/11 12:07:27 tranlam: bonjour
2023/05/11 12:07:27 tranlam: hello world
tranlam: hello world
2023/05/11 12:07:27 tranlam: network programming
^C
tranlamm@MayTangHam: ~/network_programming/08.05.2023$

tranlamm@MayTangHam: ~/network_programming/08.05.2023$ ./chat_client 127.0.0.1 9001
Connect Successfully
Please sign in to continue (client_id: client_name)
user2
Wrong format
client_id: user2
Login successfully (format to chat private: PRIVATE_TO_clientid message)
2023/05/11 12:07:27 tranlam: hello
2023/05/11 12:07:27 tranlam: bonjour
2023/05/11 12:07:27 tranlam: hello world
tranlam: hi world
2023/05/11 12:07:27 tranlam: network programming
^C
tranlamm@MayTangHam: ~/network_programming/08.05.2023$
```

## 2. Ảnh chạy thử bài 2 (Telnet server):

```
tranlamm@MayTangHam: ~/network_programming/08.05.2023$ ./telnet_server 9000 u
ser_database.txt cmd_output.txt
Waiting for client connecting ...
Client has connected: 127.0.0.1:48554
Client has connected: 127.0.0.1:42534
Receive from 4: adminadmin
Receive from 4: admin admin admin
Receive from 4: client client
Receive from 4: admin admin
Receive from 4: dir
Receive from 5: dir
Receive from 5: guess nopass
Receive from 5: guest nopass
Receive from 5: dir
Receive from 5: mkdir test.txt
Receive from 5: dir
Receive from 4:
Client 4 has disconnected
Receive from 5:
Client 5 has disconnected

tranlamm@MayTangHam:~/network_programming/08.05.2023$ ./telnet_client 127.0.
0.1 9000
Connect successfully. Please login to continue (account password)
adminadmin
Wrong format
admin admin admin
Wrong format
client client
Wrong account or password
admin admin
Login successfully
dir
chat_client chat_server.c telnet_client.c user_database.txt
chat_client.c cmd_output.txt telnet_server
chat_server telnet_client telnet_server.c

^C
tranlamm@MayTangHam:~/network_programming/08.05.2023$

tranlamm@MayTangHam:~/network_programming/08.05.2023$ nc -v 127.0.0.1 9000
Connection to 127.0.0.1 9000 port [tcp/*] succeeded!
Connect successfully. Please login to continue (account password)
dir
Wrong format
guess nopass
Wrong account or password
guest nopass
Login successfully
dir
chat_client chat_server.c telnet_client.c user_database.txt
chat_client.c cmd_output.txt telnet_server
chat_server telnet_client telnet_server.c

mkdir test.txt

dir
chat_client chat_server.c telnet_client.c test.txt
chat_client.c cmd_output.txt telnet_server user_database.txt
```