

Bài tập Lập trình mạng ngày 10/04/2023

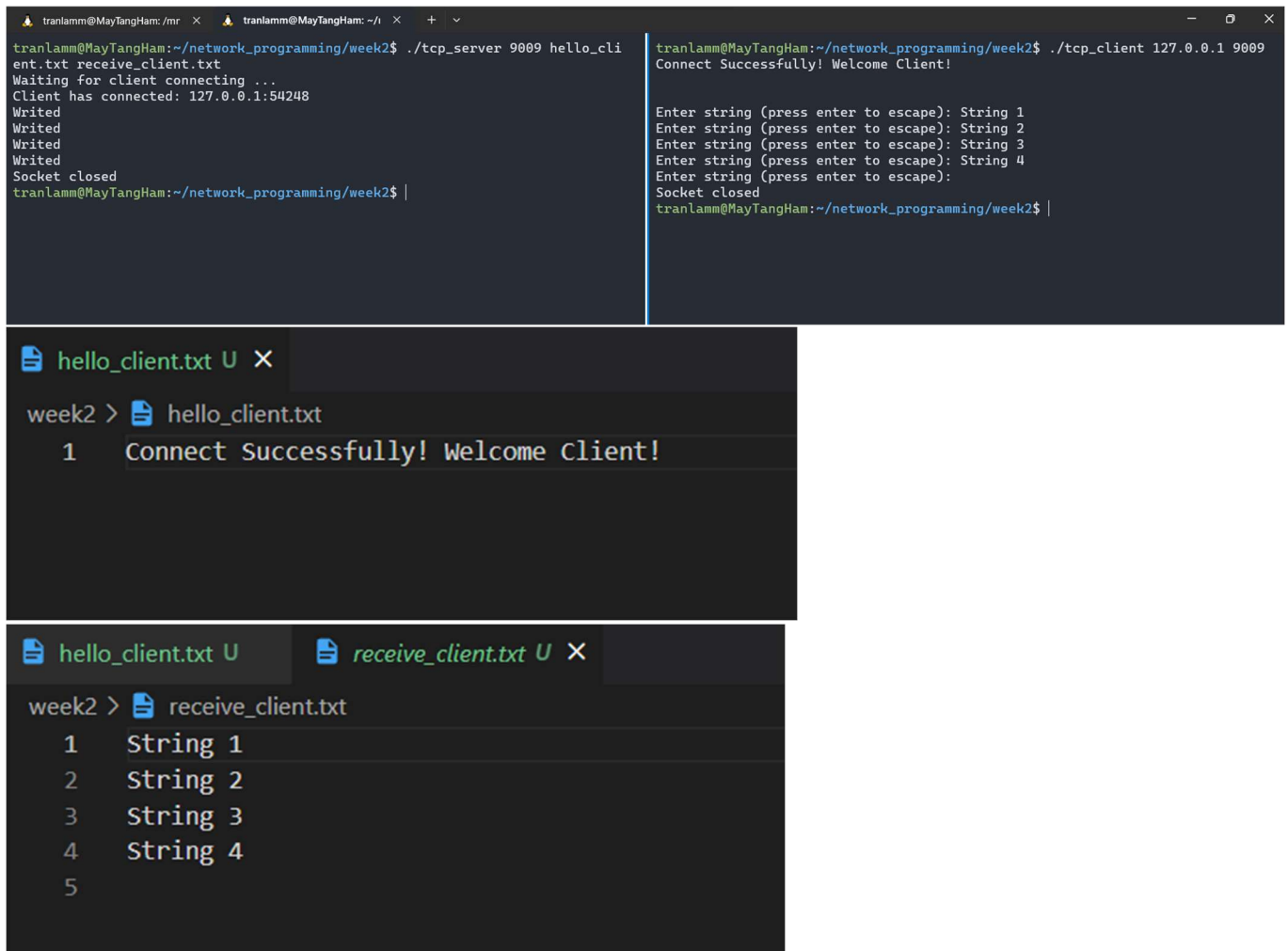
Trần Lâm – 20204759

IT4060 – 141337

Link Github:

https://github.com/tranlamm/network_programming/tree/main/10.04.2023

1. Ảnh chạy thử bài 1 + 2:



The image displays two screenshots of a development environment. The top screenshot shows a terminal window with two side-by-side sessions. The left session runs a TCP server on port 9009, which receives a connection from 127.0.0.1:54248 and prints 'Connect Successfully! Welcome Client!'. The right session runs a TCP client that connects to 127.0.0.1:9009 and sends four strings: 'String 1', 'String 2', 'String 3', and 'String 4'. The bottom screenshot shows an IDE with two files: 'hello_client.txt' and 'receive_client.txt'. The 'hello_client.txt' file contains the output of the client program, showing the connection message and the four strings received. The 'receive_client.txt' file contains the output of the server program, showing the connection message and the four strings received.

```
tranlamm@MayTangHam: ~/network_programming/week2$ ./tcp_server 9009 hello_client.txt
ent.txt receive_client.txt
Waiting for client connecting ...
Client has connected: 127.0.0.1:54248
Writed
Writed
Writed
Writed
Socket closed
tranlamm@MayTangHam: ~/network_programming/week2$ |

tranlamm@MayTangHam: ~/network_programming/week2$ ./tcp_client 127.0.0.1 9009
Connect Successfully! Welcome Client!

Enter string (press enter to escape): String 1
Enter string (press enter to escape): String 2
Enter string (press enter to escape): String 3
Enter string (press enter to escape): String 4
Enter string (press enter to escape):
Socket closed
tranlamm@MayTangHam: ~/network_programming/week2$ |
```

hello_client.txt U X

```
week2 > hello_client.txt
1 Connect Successfully! Welcome Client!
2 String 1
3 String 2
4 String 3
5 String 4
```




hello_client.txt U receive_client.txt U X


```
week2 > receive_client.txt
1 String 1
2 String 2
3 String 3
4 String 4
5
```

2. Ảnh chạy thử bài 3 + 4:

```
tranlamm@MayTangHam: ~/network_programming/week2$ gcc sv_server.c -o sv_server
tranlamm@MayTangHam:~/network_programming/week2$ ./sv_server 9800 sv_log.txt
Waiting for client connecting ...
Client has connected: 127.0.0.1:55930
127.0.0.1:55930 2023-4-13 11:13:25 20201234 Nguyen Van A 2002-04-10 3.99
127.0.0.1:55930 2023-4-13 11:13:25 20205678 Tran Van B 2002-08-18 3.50
127.0.0.1:55930 2023-4-13 11:13:25 20206789 Le Van C 2002-01-01 4.00
Socket closed
tranlamm@MayTangHam:~/network_programming/week2$ |

tranlamm@MayTangHam:~/network_programming/week2$ gcc sv_client.c -o sv_client
tranlamm@MayTangHam:~/network_programming/week2$ ./sv_client 127.0.0.1 9800
Nhap mssv: 20201234
Nhap ho va ten: Nguyen Van A
Nhap ngay sinh: 2002-04-10
Nhap diem trung binh: 3.99
Ban co muon tiep tuc (yes/no): yes
Nhap mssv: 20205678
Nhap ho va ten: Tran Van B
Nhap ngay sinh: 2002-08-18
Nhap diem trung binh: 3.50
Ban co muon tiep tuc (yes/no): yes
Nhap mssv: 20206789
Nhap ho va ten: Le Van C
Nhap ngay sinh: 2002-01-01
Nhap diem trung binh: 4
Ban co muon tiep tuc (yes/no): no
Socket closed
tranlamm@MayTangHam:~/network_programming/week2$
```

 sv_log.txt  

```
week2 >  sv_log.txt
1 127.0.0.1:55930 2023-4-13 11:13:25 20201234 Nguyen Van A 2002-04-10 3.99
2 127.0.0.1:55930 2023-4-13 11:13:25 20205678 Tran Van B 2002-08-18 3.50
3 127.0.0.1:55930 2023-4-13 11:13:25 20206789 Le Van C 2002-01-01 4.00
4
```