

Bài tập môn Lập Trình Mạng

Mã Lớp: 141337

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Dưới đây là kết quả bài tập tuần 1 của em:

1. Link github: https://github.com/DUXG68/Lap_trinh_mang

2. Kết quả các bài tập:

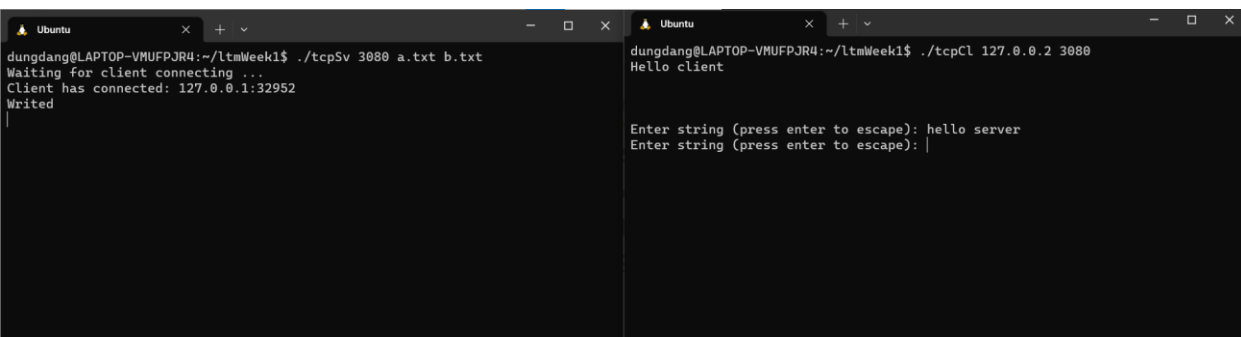
a. Bài 1:

Server chạy dưới port mặc định 3050, nghe được tới mọi IP.

Client kết nối tới port 3050, IP 127.0.0.1, tham số từ dòng lệnh truyền vào client_node là IP và Port.

b. Bài 2:

Tham số dòng lệnh được truyền vào server_node là
<PORT> <input_txt> <output_txt>



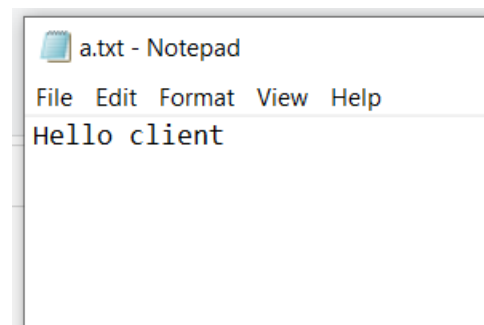
```
dungdang@LAPTOP-VMUFPJR4:~/ltmWeek1$ ./tcpSv 3080 a.txt b.txt
Waiting for client connecting ...
Client has connected: 127.0.0.1:32952
Writed
|

dungdang@LAPTOP-VMUFPJR4:~/ltmWeek1$ ./tcpCl 127.0.0.2 3080
Hello client

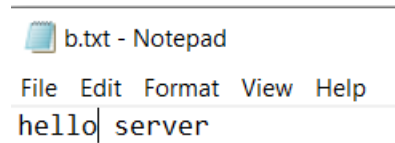
Enter string (press enter to escape): hello server
Enter string (press enter to escape): |
```

Trong hình:

a.txt là input chứa string: “Hello client” nó chứa câu chào từ server



b.txt là output chứa string từ client_node gửi tới



c. Bài 3:

Bài 3 và bài 4 sử dụng chung source ở server và client

Tham số dòng lệnh truyền vào server_node <Port> <sv_log.txt>

Tham số dòng lệnh truyền vào client_node <IP> <Port>

Thông tin sinh viên nhập theo thứ tự MSSV, Họ Tên, Ngày Sinh, GPA

d. Bài 4

Tham số dòng lệnh truyền vào server_node <Port> <sv_log.txt>

Tham số dòng lệnh truyền vào client_node <IP> <Port>

Thông tin sinh viên nhập theo thứ tự MSSV, Họ Tên, Ngày Sinh, GPA

```
Ubuntu
Command Prompt
t/c/Program Files/Microsoft SQL Server/160/DTS/Binn/./mnt/c/Program Files/Azure Data Studio/bin/mnt/c/Program Files (x86)/Microsoft SQL Server/150/DTS/Binn/./mnt/c/Program Files/Docker/Docker/resources/bin/mnt/d/Program Files/PuTTY/./mnt/c/Program Files/MySQL/MySQL Shell 8.0/bin/./mnt/c/Users/DUNG - PC/anaconda3/mnt/c/Users/DUNG - PC/anaconda3/Library/mingw-w64/bin/./mnt/c/Users/DUNG - PC/anaconda3/Library/usr/bin/./mnt/c/Users/DUNG - PC/anaconda3/Library/bin/./mnt/c/Users/DUNG - PC/anaconda3/Scripts/mnt/c/Users/DUNG - PC/AppData/Local/Programs/Python/Python311/Scripts/./mnt/c/Users/DUNG - PC/AppData/Local/Programs/Python/Python311/./mnt/c/Users/DUNG - PC/AppData/Local/Microsoft/WindowsApps/./mnt/c/Users/DUNG - PC/AppData/Local/Programs/Microsoft VS Code/bin/./mnt/c/Program Files/JetBrains/IntelliJ IDEA Community Edition 2021.3.3/bin/./mnt/c/Users/DUNG - PC/AppData/Local/GitHubDesktop/bin/./mnt/c/Users/DUNG - PC/AppData/Roaming/npm/./snap/bin/./usr/lib/jvm/jdk-17/bin/./usr/lib/jvm/jdk-18/bin/./usr/lib/jvm/jdk-18/bin'
dungdang@LAPTOP-VMUFPJR4:~$ gcc --version
gcc (Ubuntu 9.4.0-1ubuntu1~20.04.1) 9.4.0
Copyright (C) 2019 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

dungdang@LAPTOP-VMUFPJR4:~$ cd E:\2022\lập trình mạng\code
-bash: cd: too many arguments
dungdang@LAPTOP-VMUFPJR4:~$ ls
master.zip master.zip.1 my-pipelines results work
dungdang@LAPTOP-VMUFPJR4:~$ ls
ltmWeek1 master.zip master.zip.1 my-pipelines results work
dungdang@LAPTOP-VMUFPJR4:~$ cd ltmWeek1
dungdang@LAPTOP-VMUFPJR4:~/ltmWeek1$ ls
sv_client.c tcp_client.c
sv_client.c:Zone.Identifier tcp_client.c:Zone.Identifier
sv_server.c tcp_server.c
sv_server.c:Zone.Identifier tcp_server.c:Zone.Identifier
dungdang@LAPTOP-VMUFPJR4:~/ltmWeek1$ gcc sv_server.c -o server
dungdang@LAPTOP-VMUFPJR4:~/ltmWeek1$ ./server 3050 sv.txt
Waiting for client connecting ...
Client has connected: 127.0.0.1:38568
mssv:20204727_hoTen:Dang Danh Dung_ngaySinh:06/08/2002_diemTrungBinh:4.00_ip
Address:127.0.0.1:38568_dateTime:16/4/2023 21:25:54

60/Tools/Binn/./mnt/c/Program Files/Microsoft SQL Server/160/Tools/Binn/./mnt/c/Program Files/Microsoft SQL Server/160/DTS/Binn/./mnt/c/Program Files/Azure Data Studio/bin/mnt/c/Program Files (x86)/Microsoft SQL Server/150/DTS/Binn/./mnt/c/Program Files/Docker/Docker/resources/bin/mnt/d/Program Files/PuTTY/./mnt/c/Program Files/MySQL/MySQL Shell 8.0/bin/./mnt/c/Users/DUNG - PC/anaconda3/mnt/c/Users/DUNG - PC/anaconda3/Library/mingw-w64/bin/./mnt/c/Users/DUNG - PC/anaconda3/Library/usr/bin/./mnt/c/Users/DUNG - PC/anaconda3/Library/bin/./mnt/c/Users/DUNG - PC/anaconda3/Scripts/mnt/c/Users/DUNG - PC/AppData/Local/Programs/Python/Python311/Scripts/./mnt/c/Users/DUNG - PC/AppData/Local/Programs/Python/Python311/./mnt/c/Users/DUNG - PC/AppData/Local/Microsoft/WindowsApps/./mnt/c/Users/DUNG - PC/AppData/Local/Programs/Microsoft VS Code/bin/./mnt/c/Program Files/JetBrains/IntelliJ IDEA Community Edition 2021.3.3/bin/./mnt/c/Users/DUNG - PC/AppData/Local/GitHubDesktop/bin/./mnt/c/Users/DUNG - PC/AppData/Roaming/npm/./snap/bin/./usr/lib/jvm/jdk-17/bin/./usr/lib/jvm/jdk-18/bin/./usr/lib/jvm/jdk-18/bin'
dungdang@LAPTOP-VMUFPJR4:~$ ls
ltmWeek1 master.zip master.zip.1 my-pipelines results work
dungdang@LAPTOP-VMUFPJR4:~$ cd ltmWeek1
dungdang@LAPTOP-VMUFPJR4:~/ltmWeek1$ ls
server tcp_client.c
sv_client.c tcp_client.c:Zone.Identifier
sv_client.c:Zone.Identifier tcp_server.c
sv_server.c tcp_server.c:Zone.Identifier
sv_server.c:Zone.Identifier tcp_server.c:Zone.Identifier
dungdang@LAPTOP-VMUFPJR4:~/ltmWeek1$ ls
server tcp_client.c
sv_client.c tcp_client.c:Zone.Identifier
sv_client.c:Zone.Identifier tcp_server.c
sv_server.c tcp_server.c:Zone.Identifier
sv_server.c:Zone.Identifier tcp_server.c:Zone.Identifier
dungdang@LAPTOP-VMUFPJR4:~/ltmWeek1$ gcc sv_client.c -o client
dungdang@LAPTOP-VMUFPJR4:~/ltmWeek1$ ./client 127.0.0.1 3050
Nhap mssv: 20204727
Nhap ho va ten: Dang Danh Dung
Nhap ngay sinh: 06/08/2002
Nhap diem trung binh: 4.0
Ban co muon tiep tục (yes/no):
```

File log:

sv.txt - Notepad

File Edit Format View Help

mssv:20204727_hoTen:Dang Danh Dung_ngaySinh:06/08/2002_diemTrungBinh:4.00_ipAddress:127.0.0.1:38568_dateTime:16/4/2023 21:25:54
mssv:20202020_hoTen:Dang Thanh Nam_ngaySinh:02/03/2001_diemTrungBinh:3.60_ipAddress:127.0.0.1:38568_dateTime:16/4/2023 21:25:54
mssv:dÃÃ_hoTen:adfas_ngaySinh:ÃÃ das_diemTrungBinh:3.60_ipAddress:127.0.0.1:38568_dateTime:16/4/2023 21:25:54
mssv:no_hoTen:ÃÃ da_ngaySinh:Ãjdfasf_diemTrungBinh:3.60_ipAddress:127.0.0.1:38568_dateTime:16/4/2023 21:25:54