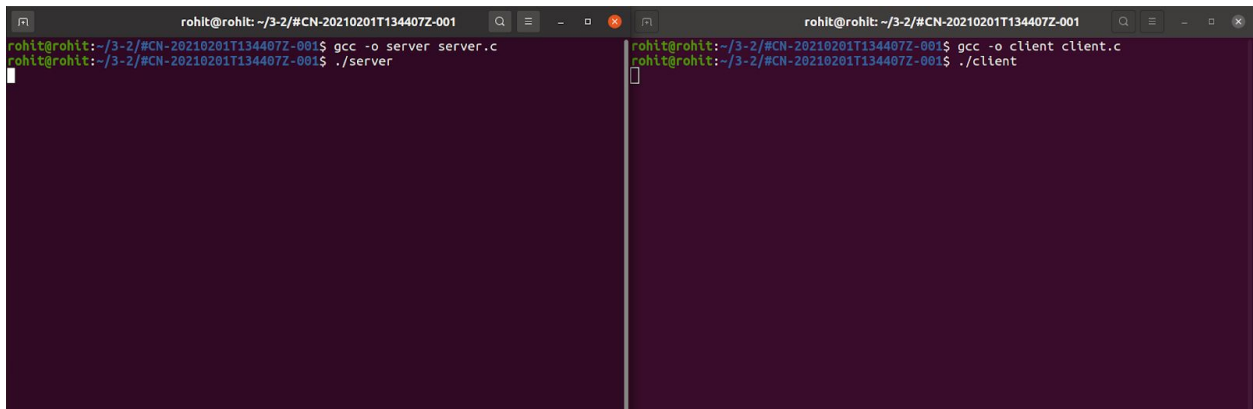


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2018A7PS0193G

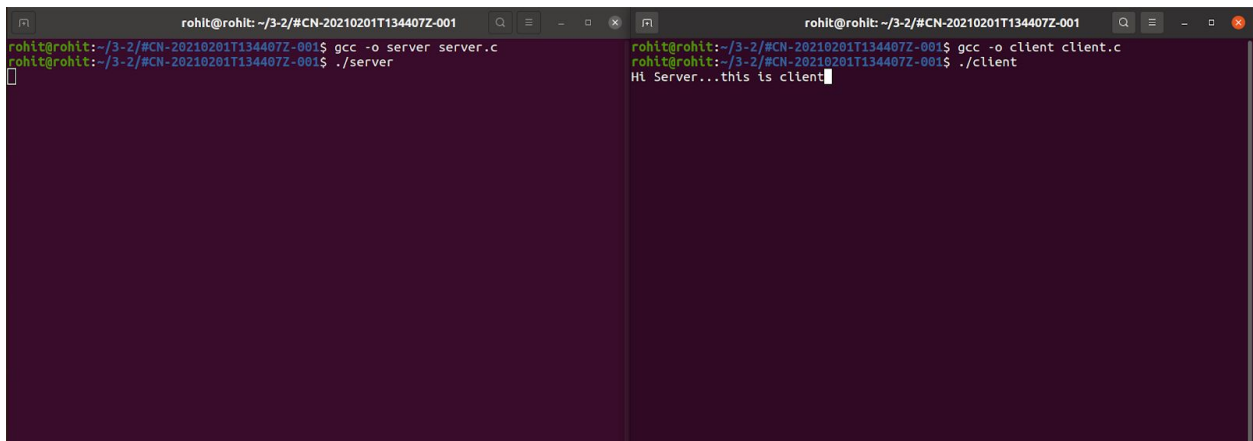
COMPUTER NETWORKS CS F303 LAB-4



```
rohit@rohit: ~/3-2/#CN-20210201T134407Z-001
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o server server.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./server

rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o client client.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./client
```

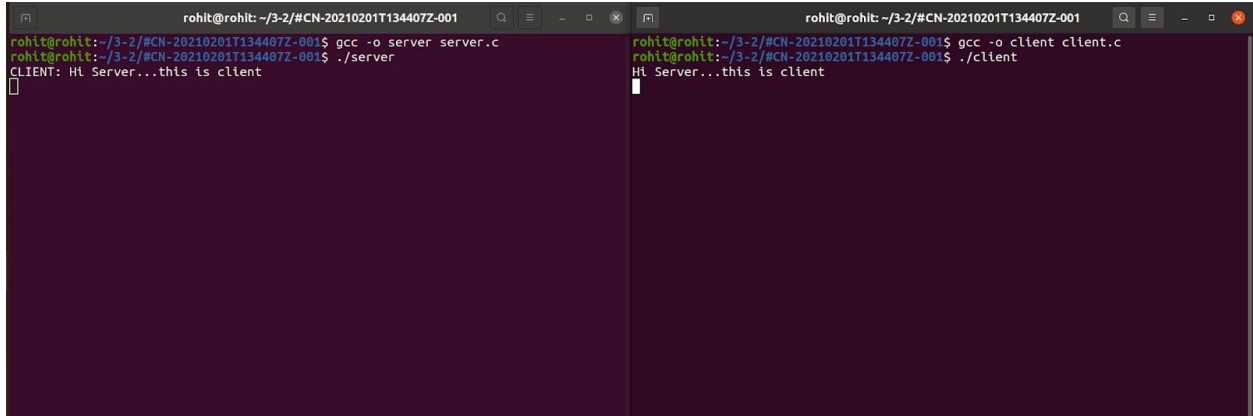
1. The text message typed from the client terminal to be sent to the server



```
rohit@rohit: ~/3-2/#CN-20210201T134407Z-001
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o server server.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./server

rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o client client.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./client
Hi Server...this is client
```

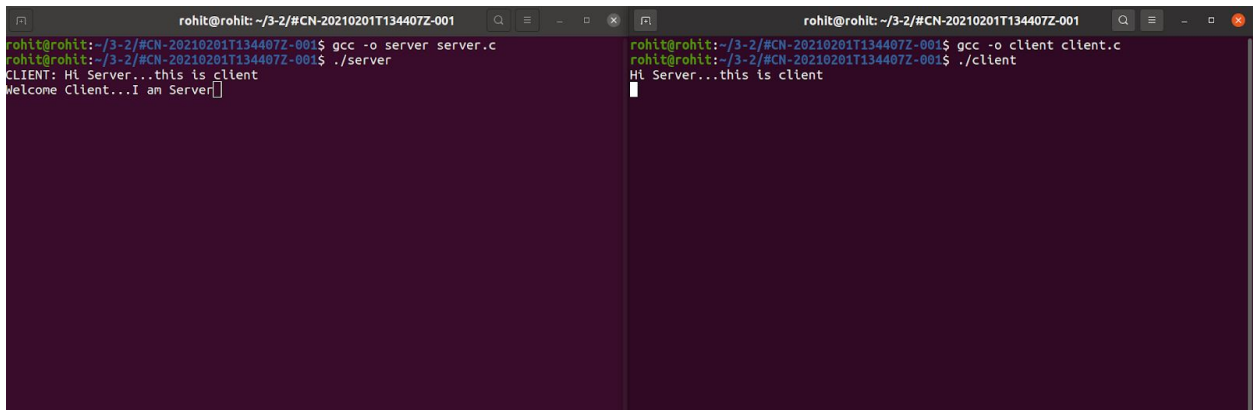
2. The display of client's sent messages on the server's terminal



```
rohit@rohit: ~/3-2/#CN-20210201T134407Z-001
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o server server.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./server
CLIENT: Hi Server...this is client

rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o client client.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./client
Hi Server...this is client
```

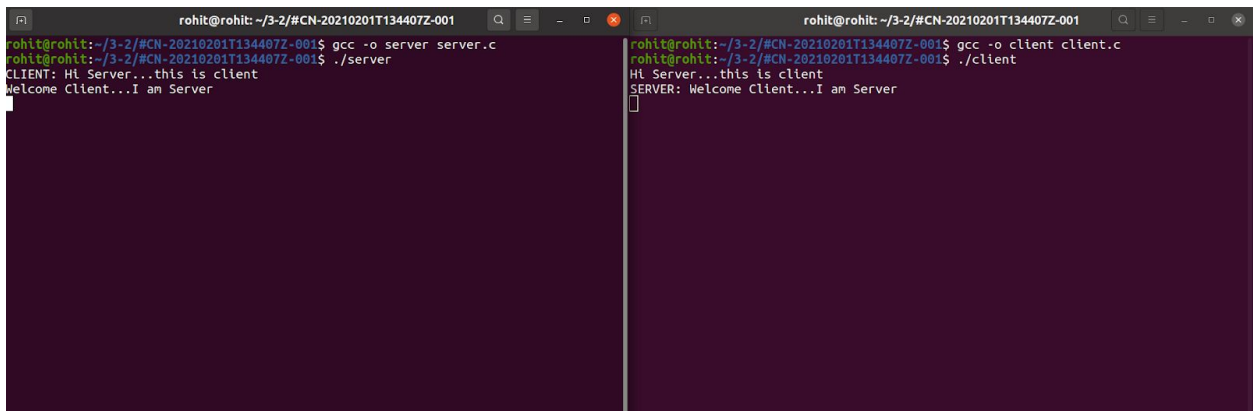
3. The text message typed from the server terminal to be sent to the client



```
rohit@rohit: ~/3-2/#CN-20210201T134407Z-001
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o server server.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./server
CLIENT: Hi Server...this is client
Welcome Client...I am Server

rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o client client.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./client
Hi Server...this is client
```

4. The display of server's sent messages on the client's terminal



```
rohit@rohit: ~/3-2/#CN-20210201T134407Z-001
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o server server.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./server
CLIENT: Hi Server...this is client
Welcome Client...I am Server

rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o client client.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./client
Hi Server...this is client
SERVER: Welcome Client...I am Server
```

5. Terminate the client program by typing 'exit' at the client terminal

```
rohit@rohit: ~/3-2/#CN-20210201T134407Z-001
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o server server.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./server
CLIENT: HI Server...this is client
Welcome Client...I am Server
[]

rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o client client.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./client
HI Server...this is client
SERVER: Welcome Client...I am Server
exit
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ []
```

6. Terminate the server by typing 'exit' at the server terminal

```
rohit@rohit:~/3-2/#CN-20210201T134407Z-001
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o server server.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./server
CLIENT: HI Server...this is client
Welcome Client...I am Server
exit
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ []

rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o client client.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./client
HI Server...this is client
SERVER: Welcome Client...I am Server
exit
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ []
```

When the Client exits, the Server Terminal Displays an error/warning if trying to send messages and vice versa:

```
rohit@rohit:~/3-2/#CN-20210201T134407Z-001
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o server server.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./server
HI Client
--Client Exited--
[]

rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o client client.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./client
exit
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ []
```

When one of the 2 programs exits the other waits for a new client/server to join to send messages:

```
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o server server.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./server
ht
CLIENT: ht
exit
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$

exit
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ gcc -o client client.c
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$ ./client
SERVER: ht
ht
hello
---Server Exited ---
what is this server?
---Server Exited ---
ok bye
---Server Exited ---
exit
rohit@rohit:~/3-2/#CN-20210201T134407Z-001$
```

All pipes are closed and memory freed before exiting.