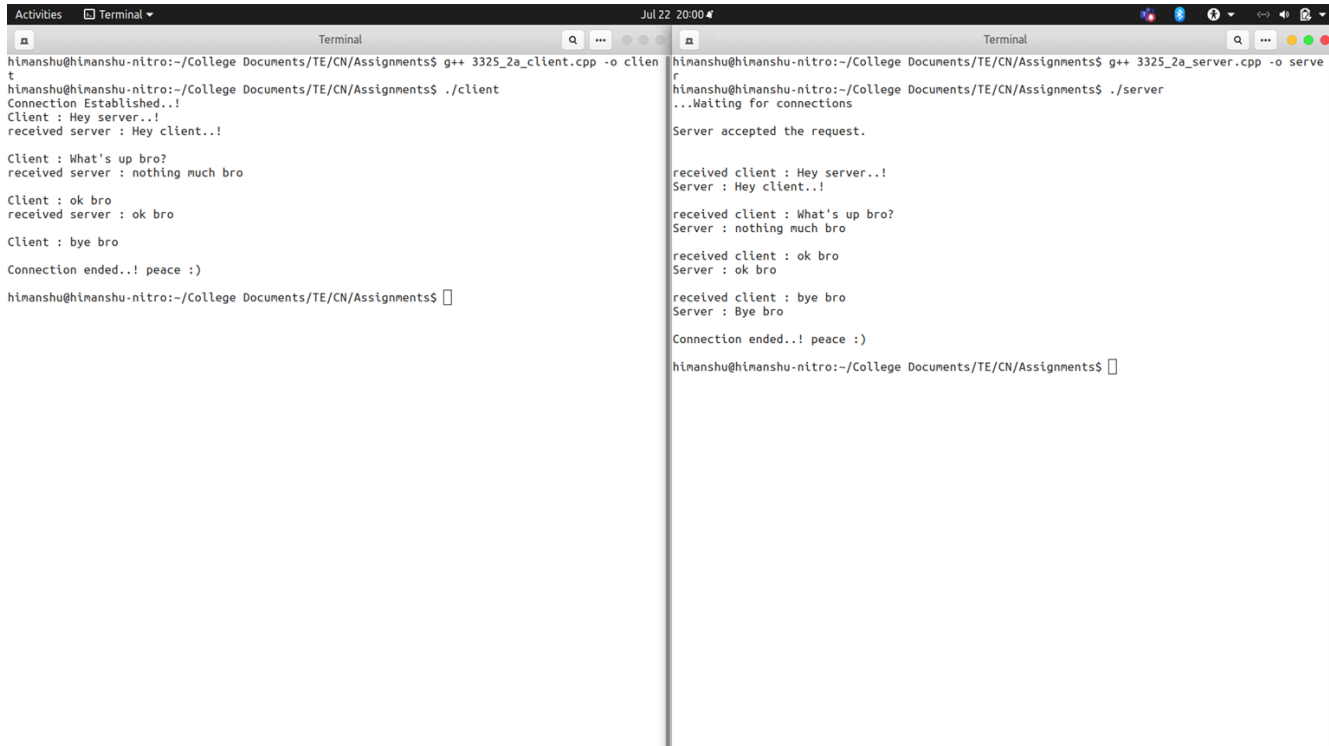


# Department of Computer Engineering TE Computer-A (2020-21 Sem I)

## Computer Networks Practical Assignment 2 [Max Marks: 10]

Submitted by: Himanshu Shekhar Padhi (3325)

### a) Say Hello to each other



```
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ g++ 3325_2a_client.cpp -o client
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ ./client
Connection Established..!
Client : Hey server..!
received server : Hey client..!

Client : What's up bro?
received server : nothing much bro

Client : ok bro
received server : ok bro

Client : bye bro
Connection ended..! peace :)
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$
```

```
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ g++ 3325_2a_server.cpp -o server
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ ./server
...Waiting for connections
Server accepted the request.

received client : Hey server..!
Server : Hey client..!

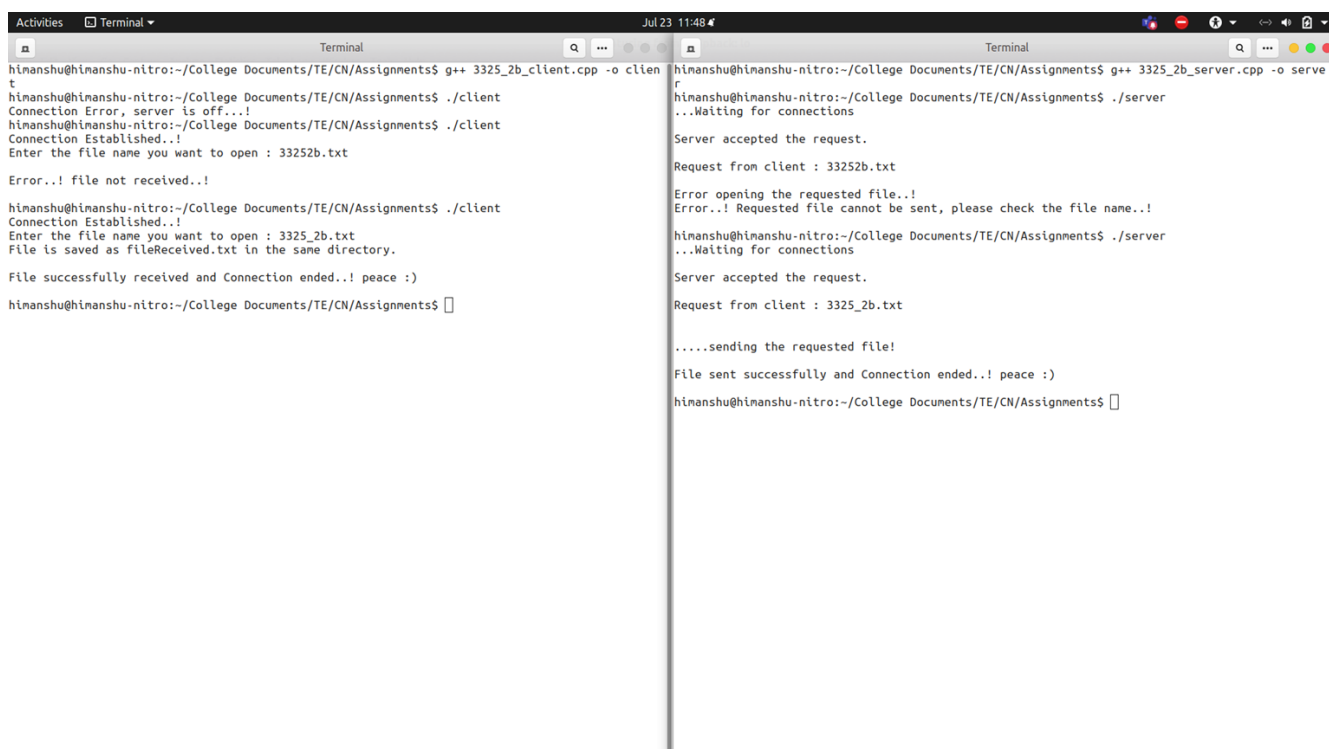
received client : What's up bro?
Server : nothing much bro

received client : ok bro
Server : ok bro

received client : bye bro
Server : Bye bro

Connection ended..! peace :)
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$
```

### b) File Transfer



```
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ g++ 3325_2b_client.cpp -o client
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ ./client
Connection Error, server is off..!
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ ./client
Connection Established..!
Enter the file name you want to open : 33252b.txt

Error..! file not received..!

himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ ./client
Connection Established..!
Enter the file name you want to open : 3325_2b.txt
File is saved as fileReceived.txt in the same directory.

File successfully received and Connection ended..! peace :)
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$
```

```
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ g++ 3325_2b_server.cpp -o server
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ ./server
...Waiting for connections
Server accepted the request.

Request from client : 33252b.txt
Error opening the requested file..!
Error..! Requested file cannot be sent, please check the file name..!

himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ ./server
...Waiting for connections
Server accepted the request.

Request from client : 3325_2b.txt

.....sending the requested file!
File sent successfully and Connection ended..! peace :)
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$
```

## c) Calculator

```
Activities Terminal Jul 24 09:36
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ g++ 3325_2c_client.cpp -o client
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ ./client

Connection Established..!
*****Welcome to Arithmetic calculator!*****
Choose the Operation to be performed bellow :
1)Addition (+)
2)Subtraction (-)
3)Division (/)
4)Multiplication (*)
Enter your choice (1/2/3/4) : 4
First Operand : 4
Second Operand : 4

Ans : 16

Do you want to continue? (y/n) : y
*****Welcome to Arithmetic calculator!*****
Choose the Operation to be performed bellow :
1)Addition (+)
2)Subtraction (-)
3)Division (/)
4)Multiplication (*)
Enter your choice (1/2/3/4) : 3
First Operand : 10
Second Operand : -5

Ans : -2

Do you want to continue? (y/n) : y
*****Welcome to Arithmetic calculator!*****
Choose the Operation to be performed bellow :
1)Addition (+)
2)Subtraction (-)
3)Division (/)
4)Multiplication (*)
Enter your choice (1/2/3/4) : 2
First Operand : 0
Second Operand : 88

Ans : -88

Do you want to continue? (y/n) : n

Connection terminated on request! peace:)

himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$
```

```
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ g++ 3325_2c_server.cpp -o server
himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$ ./server

...Waiting for connections

Server accepted the request.

*****Calculator started*****
...asking for the operation from the client!
Received operation type : 4

...asking for the first operand from the client!
Received First operand : 4

...asking for the second operand from the client!
Received Second operand : 4

Calculated ans : 16

...Sending ans to the client!
Ans sent successfully to the client

*****Calculator started*****
...asking for the operation from the client!
Received operation type : 3

...asking for the first operand from the client!
Received First operand : 10

...asking for the second operand from the client!
Received Second operand : -5

Calculated ans : -2

...Sending ans to the client!
Ans sent successfully to the client

*****Calculator started*****
...asking for the operation from the client!
Received operation type : 2

...asking for the first operand from the client!
Received First operand : 0

...asking for the second operand from the client!
Received Second operand : 88

Calculated ans : -88

...Sending ans to the client!
Ans sent successfully to the client

Connection terminated on request from client..! peace :)

himanshu@himanshu-nitro:~/College Documents/TE/CN/Assignments$
```