LAB 5 - Client-Server Communication

NAME - DEV GOEL ID - 2019A7PS0236G

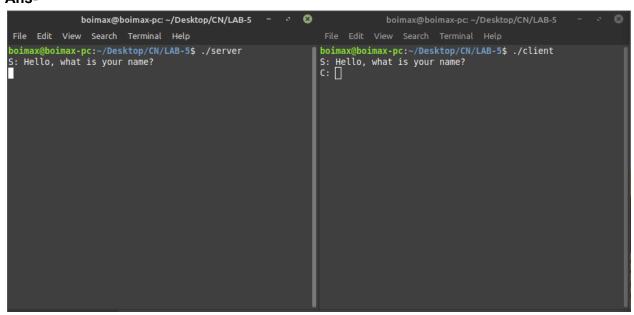
a) the client.c and server.c file. (1+1 mark for each file compiling properly and is properly commented)

Ans -

The files have been attached in the zip folder.

b) the server is able to send the "Hello, what is your name?" message to the client (2 marks)

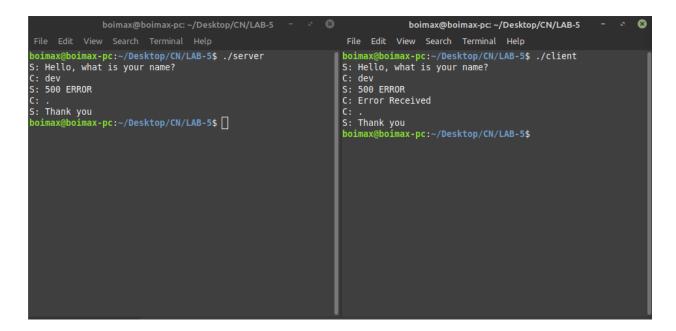
Ans-



c) The client is able to send its name to the server and the server sends the response code. You must send your name (once in complete lower case and once in camel casing where the first alphabet is in uppercase and all others are in lower case) as the response to the server. (1.5+1.5 mark)

Ans -

1. Sending name in complete lower case



2. Sending name in camel case

```
boimax@boimax-pc: ~/Desktop/CN/LAB-5 - Doimax@boimax-pc: ~/Desktop/CN/LAB-5 - Doimax@boimax-pc:
```

d) If the client gets 200 OK from the server, then it sends the message, else it throws an error message and sends "." to the server to terminate the connection. (1.5 + 1.5 marks)

Ans -

1. Getting 200 OK from server

```
boimax@boimax-pc:-/Desktop/CN/LAB-5 - Doimax@boimax-pc:-/Desktop/CN/LAB-5 - Doimax@boimax-pc:-/Desktop/CN/LA
```

2. Getting 500 ERROR from server

e) The client can send continuous lines of messages to the server. (2 marks)

Ans -

```
boimax@boimax-pc: ~/Desktop/CN/LAB-5
                                                                   File Edit View Search Terminal Help
boimax@boimax-pc:~/Desktop/CN/LAB-5$ ./server
                                                                  boimax@boimax-pc:~/Desktop/CN/LAB-5$ ./client
S: Hello, what is your name?
                                                                  S: Hello, what is your name?
                                                                  C: Dev
C: Dev
S: 200 OK
                                                                  S: 200 OK
                                                                  C: Okay, I have recieved confirmation.
C: How are you doing?
C: This is CN Lab - 5
C: Okay, I have recieved confirmation.
C: How are you doing?
C: This is CN Lab - 5
C: Ok, I'll disconnect now.
                                                                  C: Ok, I'll disconnect now.
```

f) The server sends a "Thank you, <name>"" message on receiving CRLF.CRLF line (2 marks)

Ans -

```
boimax@boimax-pc: ~/Desktop/CN/LAB-5
                                                                                File Edit View Search Terminal Help
                                                                              boimax@boimax-pc:~/Desktop/CN/LAB-5$ ./client
S: Hello, what is your name?
boimax@boimax-pc:~/Desktop/CN/LAB-5$ ./server
S: Hello, what is your name?
                                                                              C: Dev
C: Dev
S: 200 OK
                                                                              S: 200 OK
C: Okay, I have recieved confirmation.
                                                                              C: Okay, I have recieved confirmation.
C: How are you doing?
C: This is CN Lab - 5
C: How are you doing?
C: This is CN Lab - 5
C: Ok, I'll disconnect now.
                                                                              C: Ok, I'll disconnect now.
                                                                              S: Thank you, Dev
boimax@boimax-pc:~/Desktop/CN/LAB-5$
S: Thank you, Dev
boimax@boimax-pc:~/Desktop/CN/LAB-5$
```