

# Lab 5: Client-Server Communication

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## Compile and Run

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- Compilation

```
gcc server.c -o server.out  
gcc client.c -o client.out
```

- Start the server first

```
./server.out
```

- Then start the client

```
./client.out
```

# Screenshots

b.

<code>./server.out</code>	<code>./client.out</code>
Socket created Socket bound Listening on http://localhost:4444 Connection accepted S: Hello, what is your name? █	Socket created Connected to server S: Hello, what is your name? █

c.

<code>./server.out</code>	<code>./client.out</code>
Socket created Socket bound Listening on http://localhost:4444 Connection accepted S: Hello, what is your name? C: Aryan S: 200 OK █	Socket created Connected to server S: Hello, what is your name? Aryan C: Aryan S: 200 OK █

<code>./server.out</code>	<code>bash</code>
Socket created Socket bound Listening on http://localhost:4444 Connection accepted S: Hello, what is your name? C: aryan S: 500 ERROR C: . S: Thank you, aryan █	Socket created Connected to server S: Hello, what is your name? aryan C: aryan S: 500 ERROR C: . S: Thank you, aryan  root@80ffb2d0c4b7:/workspaces/Lab/Lab05# █

d.

<code>./server.out</code>	<code>./client.out</code>
Socket created Socket bound Listening on http://localhost:4444 Connection accepted S: Hello, what is your name? C: Aryan S: 200 OK C: Thank you for accepting the connection. █	Socket created Connected to server S: Hello, what is your name? Aryan C: Aryan S: 200 OK Thank you for accepting the connection. C: Thank you for accepting the connection. █

<code>./server.out</code>	<code>bash</code>
Socket created Socket bound Listening on http://localhost:4444 Connection accepted S: Hello, what is your name? C: aryan S: 500 ERROR C: . S: Thank you, aryan █	Socket created Connected to server S: Hello, what is your name? aryan C: aryan S: 500 ERROR C: . S: Thank you, aryan  root@80ffb2d0c4b7:/workspaces/Lab/Lab05# █

e.

<code>./server.out</code>	<code>./client.out</code>
Socket created Socket bound Listening on http://localhost:4444 Connection accepted S: Hello, what is your name? C: Aryan S: 200 OK C: Thank you for accepting the connection. C: I have no messages for mail boxes in your server. C: I am closing the connection now. █	Socket created Connected to server S: Hello, what is your name? Aryan C: Aryan S: 200 OK Thank you for accepting the connection. C: Thank you for accepting the connection. I have no messages for mail boxes in your server. C: I have no messages for mail boxes in your server. I am closing the connection now. C: I am closing the connection now. █

f.

```
./server.out • ... bash • + v [ ] [ ] ...

Socket created
Socket bound
Listening on http://localhost:4444
Connection accepted
S: Hello, what is your name?
C: Aryan
S: 200 OK
C: Thank you for accepting the connection.
C: I have no messages for mail boxes in your server.
C: I am closing the connection now.
C: .
S: Thank you, Aryan

[ ]

Socket created
Connected to server
S: Hello, what is your name?
Aryan
C: Aryan
S: 200 OK
Thank you for accepting the connection.
C: Thank you for accepting the connection.
I have no messages for mail boxes in your server.
C: I have no messages for mail boxes in your server.
I am closing the connection now.
C: I am closing the connection now.
.
C: .
S: Thank you, Aryan

root@80ffb2d0c4b7:/workspaces/Lab/Lab05#
```