

Pseudo code:

tient: Server.

- Create Socket
- Bind Socket Found
- Start listening
- Accept Client in a client structure.

and keep indexing them

1. Create new server thread as clients keep connecting

Threads call the function to send / Recv.

Client Structure index SOCKID sockaddr-in clientAdd

· For one - One send to client (index+1)% Send to all clients total clients

Recy from all Clients

| with index! = current

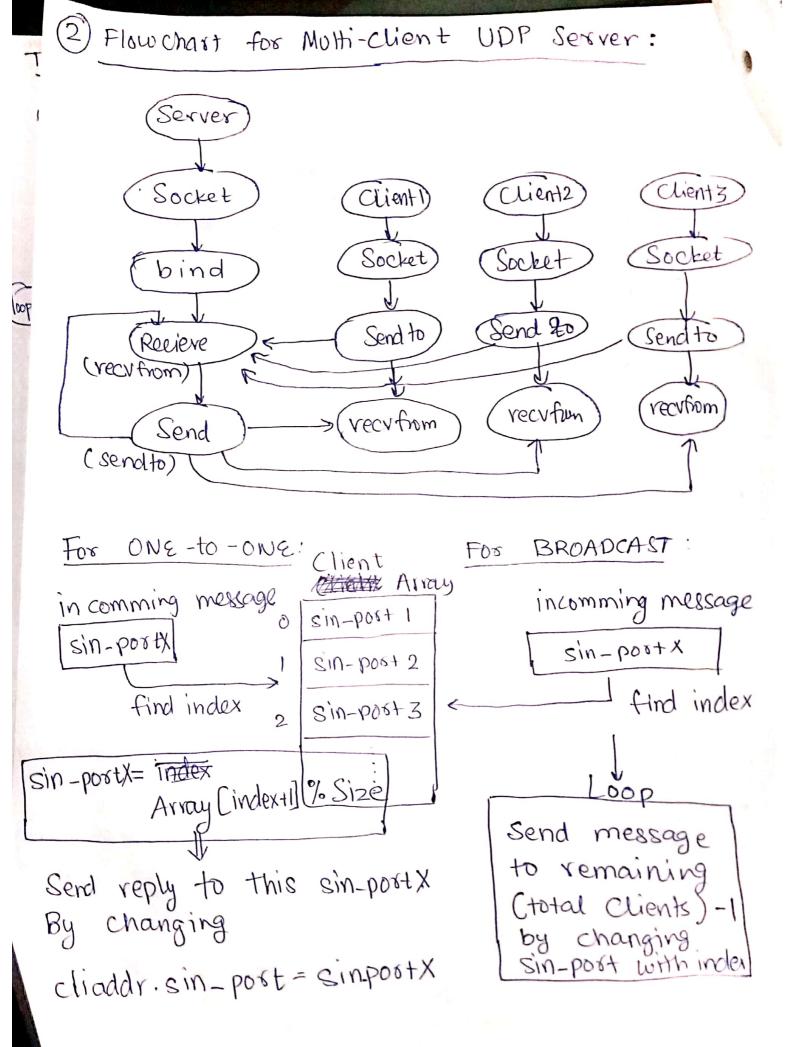
· Rear from all Clients

Client:

- · Create Socket
- · Connect to Server
- > Wait till server forwards the message in the

(loop) main thread.

- Make a new thread for 8 recieving messages
- Do the reading in main thread.
 - and one-one mode



Server.

- Create socket
- Bind socket
- Read temporary messages and index the sin-port in cliaddr in an array to identify clients.
 - Now when any client sends the message you can identify its index by comparing its sin-port value with the array storing au sin-port values.
 - · Broadcart: reply to all clients ather than the current index by changing sin-port value of cliadar using indexing array and for loop.
 - · One to One: Find the Use the index you found out, increase it by 1 in cyclic way. Charge sin-post value to this index's value and send Client.
 - · create Socket
 - send temporary message to server for identification
 - · LOOP:

send text messages in moin theaad

· Use new thread to recieve messages

LOOP:

Recieve messages in the function called by new thread