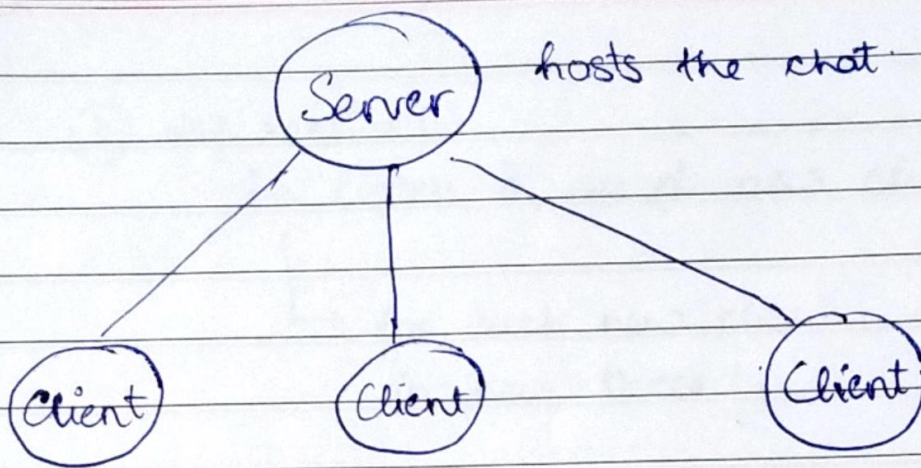


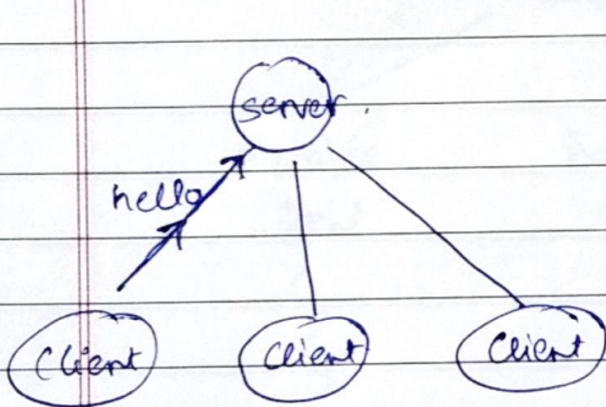
Chat - Room

classmate

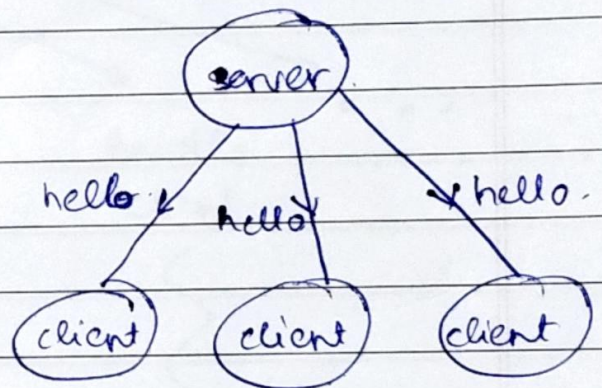
Date _____
Page _____



send msg
to broadcast
to everyone
else



client sends a
msg to server



server broadcasts
the msg to everyone

Server Functions

→ listen on IP & port ——

→ Define Functions :-

(1) ^{def} ~~def~~ broadcast(msg)

↳ Broadcast this msg to all clients.

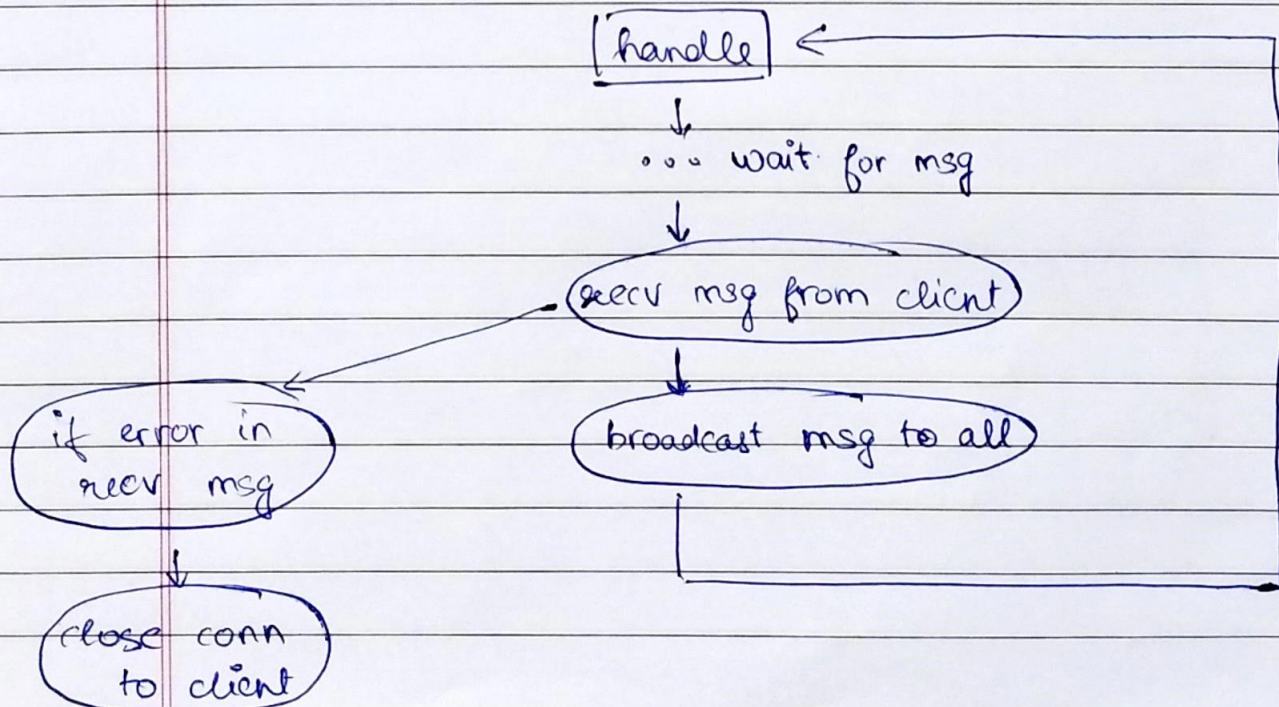
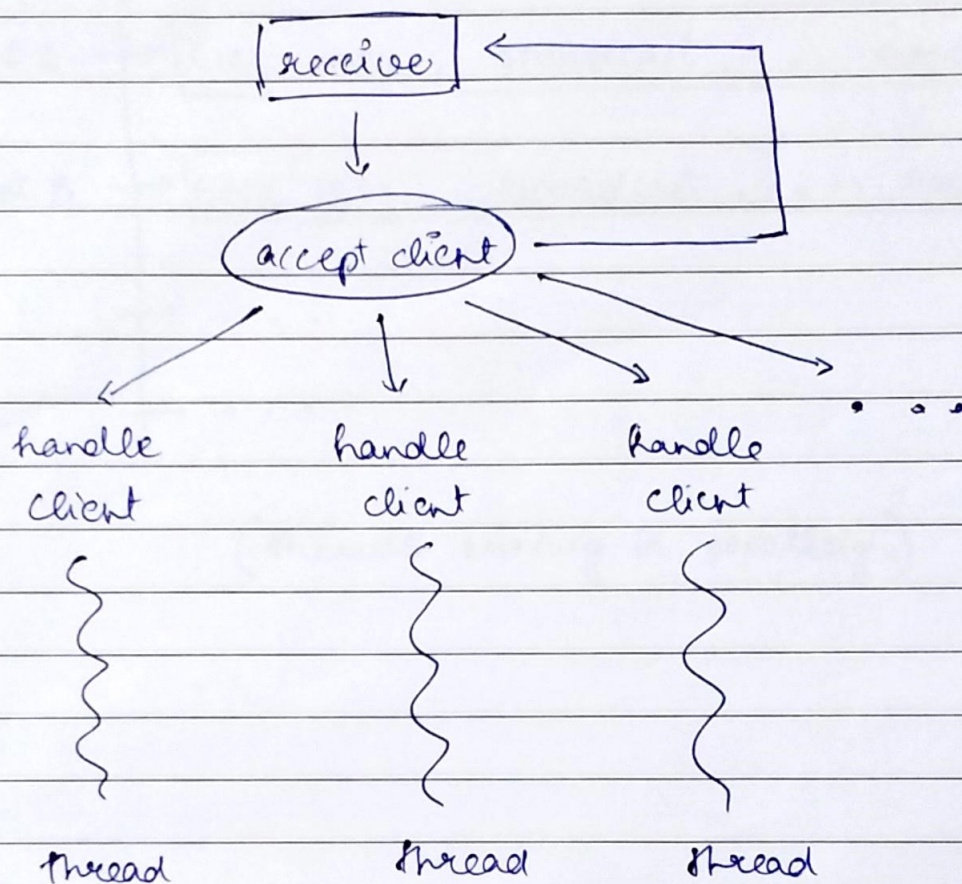
(2) def handle(client)

↳ receive a msg from client (as loop)

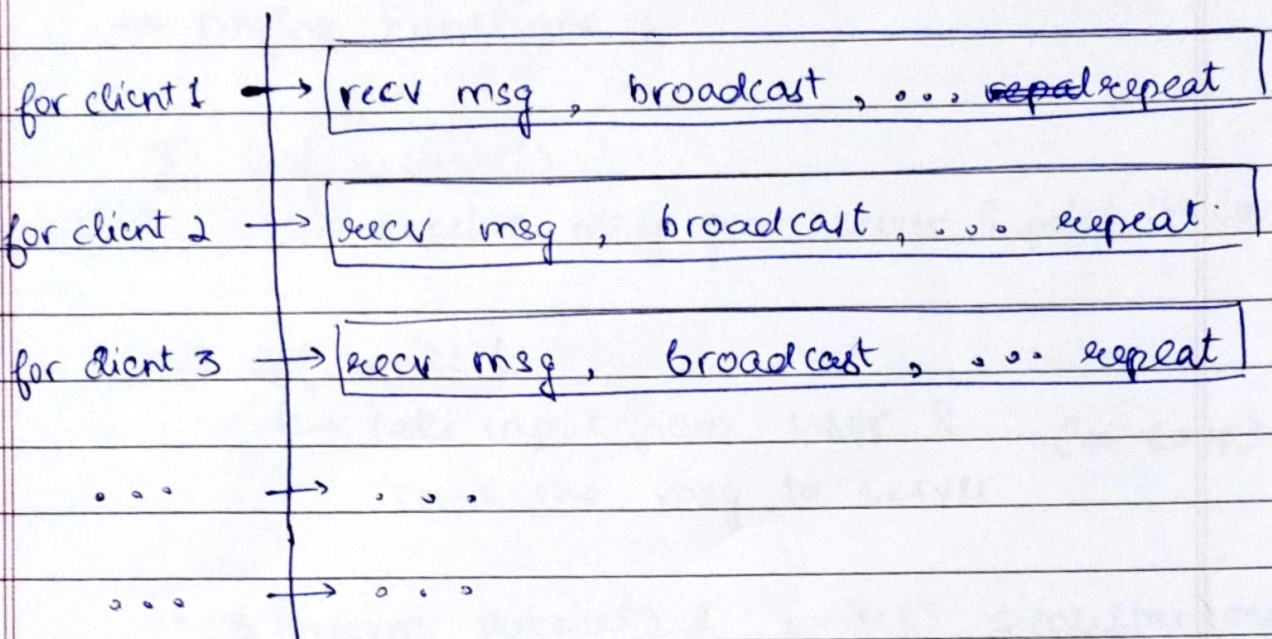
(3) def receive()

↳ listen & accept new clients (as loop)

↳ for each new client, call handle in new thread,



So, at the server, multiple threads are running that listen for msg, receive the msg & then broadcast to all.



(threads running in parallel)

Client Functions

→ Connect to server at IP & port

→ Define Functions :

① def receive()

↳ receive msg from server & print it (as loop)

② def write()

↳ take input from user & (as loop)
send the msg to server

→ Perform receive() & write() simultaneously using 2 threads.

