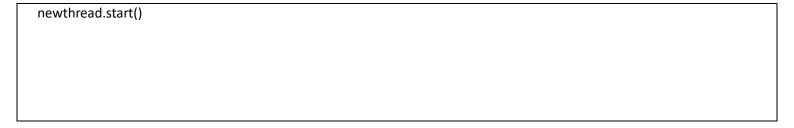
Server Code

```
import socket, threading
class ClientThread(threading.Thread):
  def _init_(self,clientAddress,clientsocket):
    threading.Thread._init_(self)
    self.csocket = clientsocket
    print ("New connection added: ", clientAddress)
  def run(self):
    print ("Connection from: ", clientAddress)
    #self.csocket.send(bytes("Hi, This is from Server..",'utf-8'))
    msg = "
    while True:
      data = self.csocket.recv(2048)
      msg = data.decode()
      if msg=='bye from clientA':
       break
      print (msg)
      self.csocket.send(bytes(msg,'UTF-8'))
    print ("Client at ", clientAddress , " disconnected...")
LOCALHOST = "127.0.0.1"
PORT = 8080
server = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
server.setsockopt(socket.SOL_SOCKET, socket.SO_REUSEADDR, 1)
server.bind((LOCALHOST, PORT))
print("Server started")
print("Waiting for client request..")
while True:
  server.listen(1)
  clientsock, clientAddress = server.accept()
  newthread = ClientThread(clientAddress, clientsock)
```



Client A

```
import socket

SERVER = "127.0.0.1"

PORT = 8080

client = socket.socket(socket.AF_INET, socket.SOCK_STREAM)

client.connect((SERVER, PORT))

client.sendall(bytes("This is from Client",'UTF-8'))

while True:

in_data = client.recv(1024)

print("From Server:",in_data.decode())

out_data = input()

out_data += " from clientA"

client.sendall(bytes(out_data,'UTF-8'))

if out_data=='bye':

    break

client.close()
```

Client B

```
import socket

SERVER = "127.0.0.1"

PORT = 8080

client = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
```

```
client.connect((SERVER, PORT))
client.sendall(bytes("This is from Client",'UTF-8'))
while True:
in_data = client.recv(1024)
print("From Server:",in_data.decode())
out_data = input()
out_data += " from clientB"
client.sendall(bytes(out_data,'UTF-8'))
if out_data=='bye':
    break
client.close()
```

Output:

cnlab@cnlab-Precision-Tower-3420:~/DC/prac3\$ python3 server.py

Server started

Waiting for client request..

New connection added: ('127.0.0.1', 41954)

Connection from: ('127.0.0.1', 41954)

This is from Client

New connection added: ('127.0.0.1', 51368)

Connection from: ('127.0.0.1', 51368)

This is from Client

New connection added: ('127.0.0.1', 60472)

Connection from: ('127.0.0.1', 60472)

This is from Client

Hiii from clientA

Hello from clientB

How are you? from client

Client A:

cnlab@cnlab-Precision-Tower-3420:~/DC/prac3\$ python3 clientA.py

From Server : This is from Client

Hiii

From Server: Hiii from clientA

Client B:

cnlab@cnlab-Precision-Tower-3420:~/DC/prac3\$ python3 clientB.py

From Server : This is from Client

Hello

From Server : Hello from clientB