APP PARALLEL AND CONCURRENT PROGRAMMING

**Question 1: Create Simple Client Server Application using TCP Socket where server issue a command**

**which will be executed at the client slide as a process of remote command execution**

**Solution:**

**Client.py**

import socket

def client\_program():

host = socket.gethostname()

port = 100

client\_socket = socket.socket()

client\_socket.connect((host, port))

message = input("Enter massage for server: ")

while message.lower().strip() != 'bye':

client\_socket.send(message.encode())

data = client\_socket.recv(1024).decode()

print('Message from server: ' + data)

message = input(" Enter massage for server: ")

client\_socket.close()

if \_\_name\_\_ == '\_\_main\_\_':

client\_program()

**Server.py**

import socket

def server\_program():

host = socket.gethostname()

port = 100

server\_socket = socket.socket()

server\_socket.bind((host, port))

server\_socket.listen(2)

conn, address = server\_socket.accept()

print("Client Connection from: " + str(address))

while True:

data = conn.recv(1024).decode()

if not data:

break

print("Message from client: " + str(data))

data = input(' Enter message for client: ')

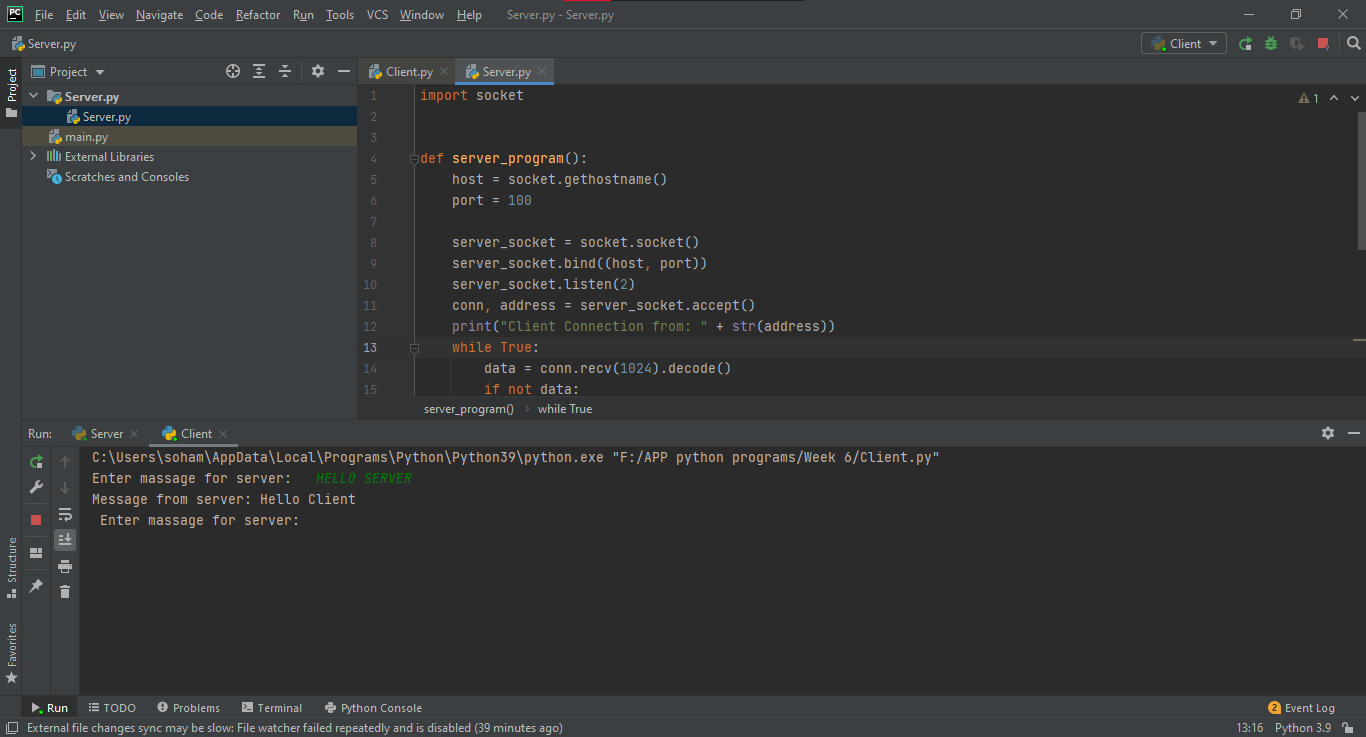
conn.send(data.encode())

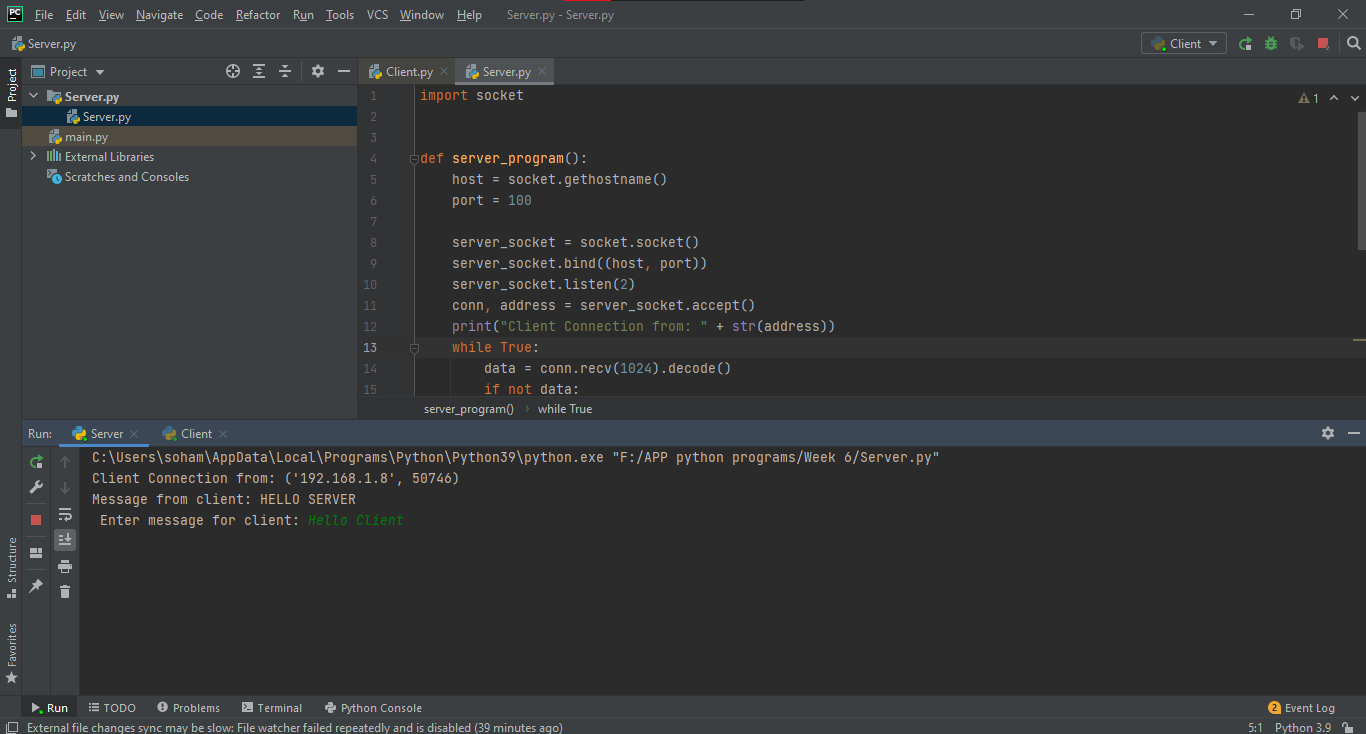
conn.close()

if \_\_name\_\_ == '\_\_main\_\_':

server\_program()

**SCREENSHOTS:**





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