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:

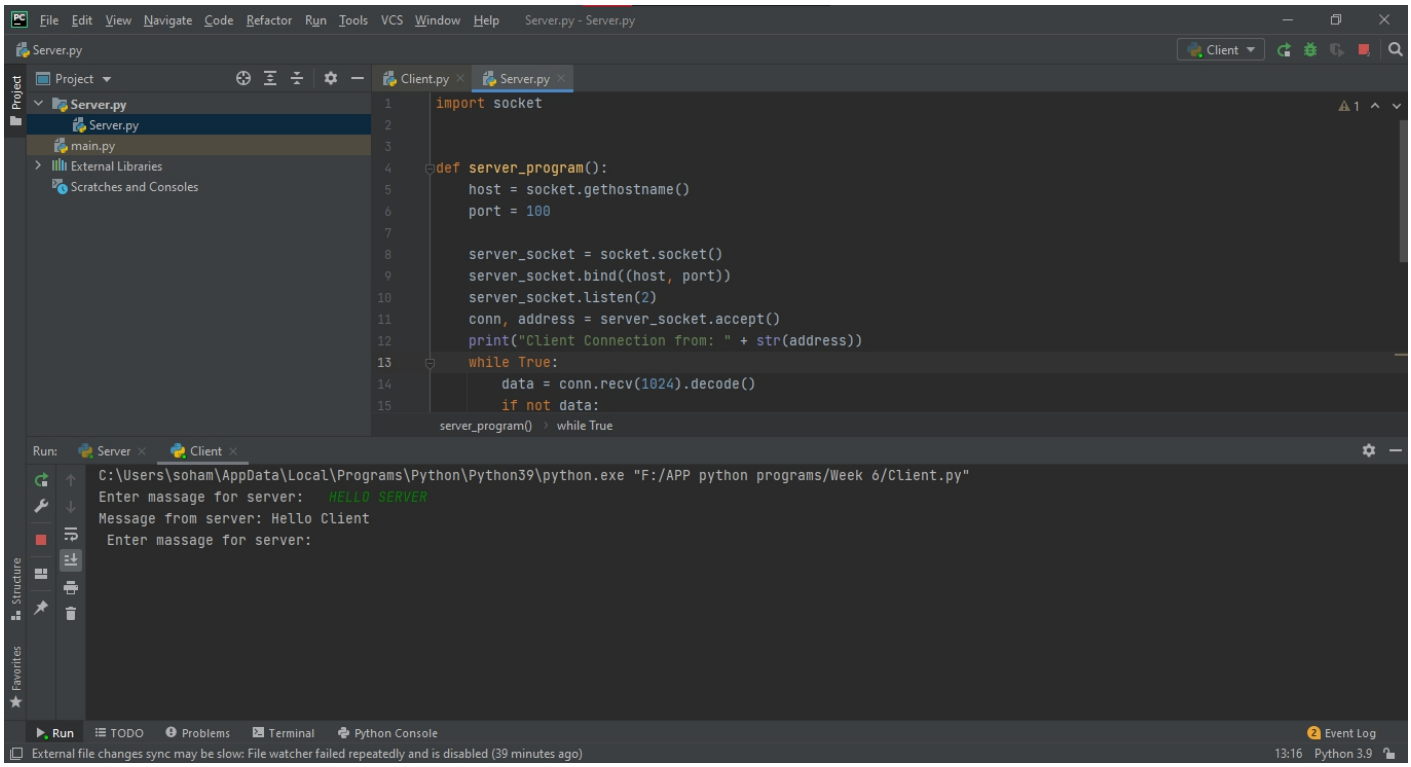
Client.py

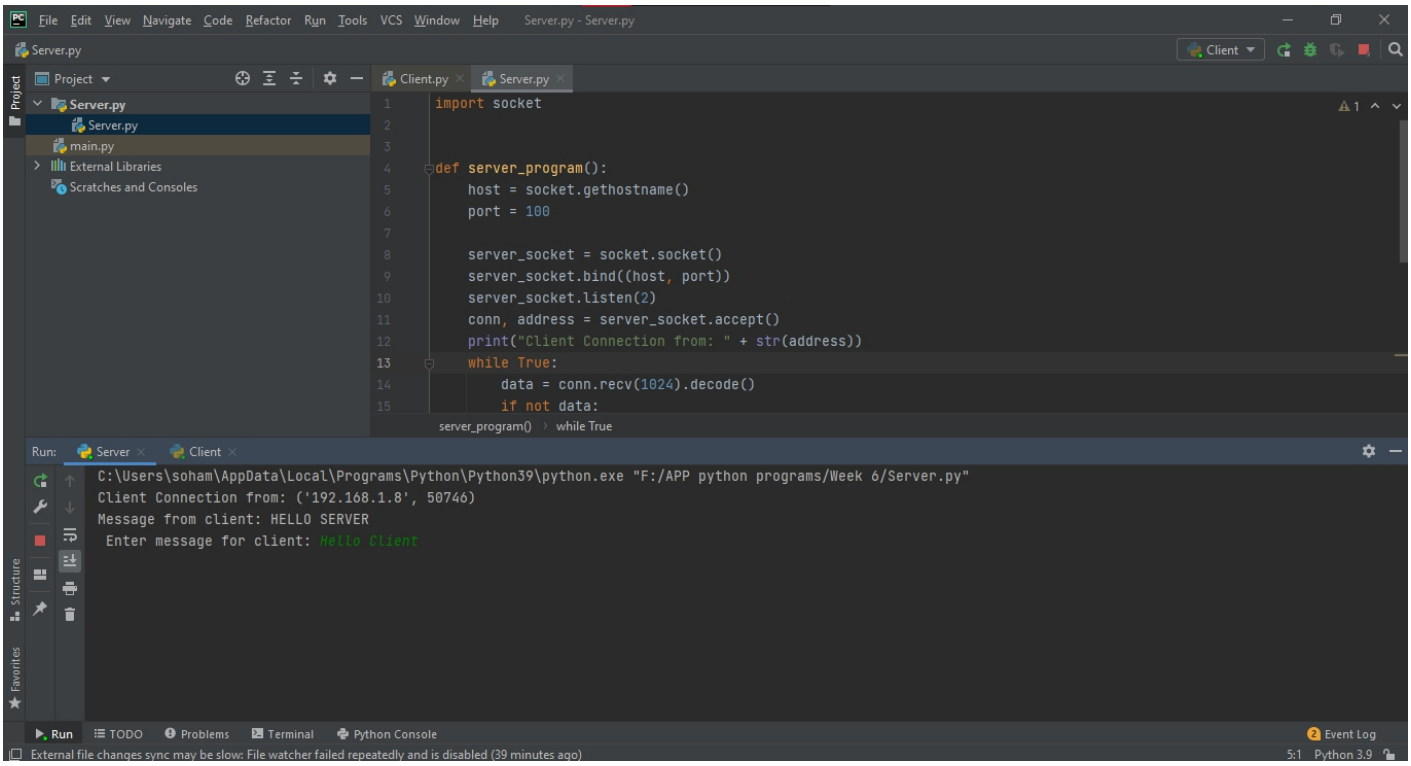
```
import socket


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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