Programming assignment 2

Group Members: Steven Price (1 person)

Contributions: Steven Price Client, Server, SQL(Everything)

Introduction

I worked on Project 2 by myself, with no help from others. I used python as the programming language as I found it to be the easiest for me to understand. I also had a personal project before where I made a Client server which I also used python.

Running Instructions

Server must be started first, after the server is started, you may start up to 9 clients if wanted. I set a soft cap of 10 clients be able to run on the server, which can be changed. The port I set is 25565, it is changeable in the code if needed.

In a CMD with python installed type the following

CMD 1 :

Python server.py

CMD 2:

Python client.py IPADDRESS

CMD 3:

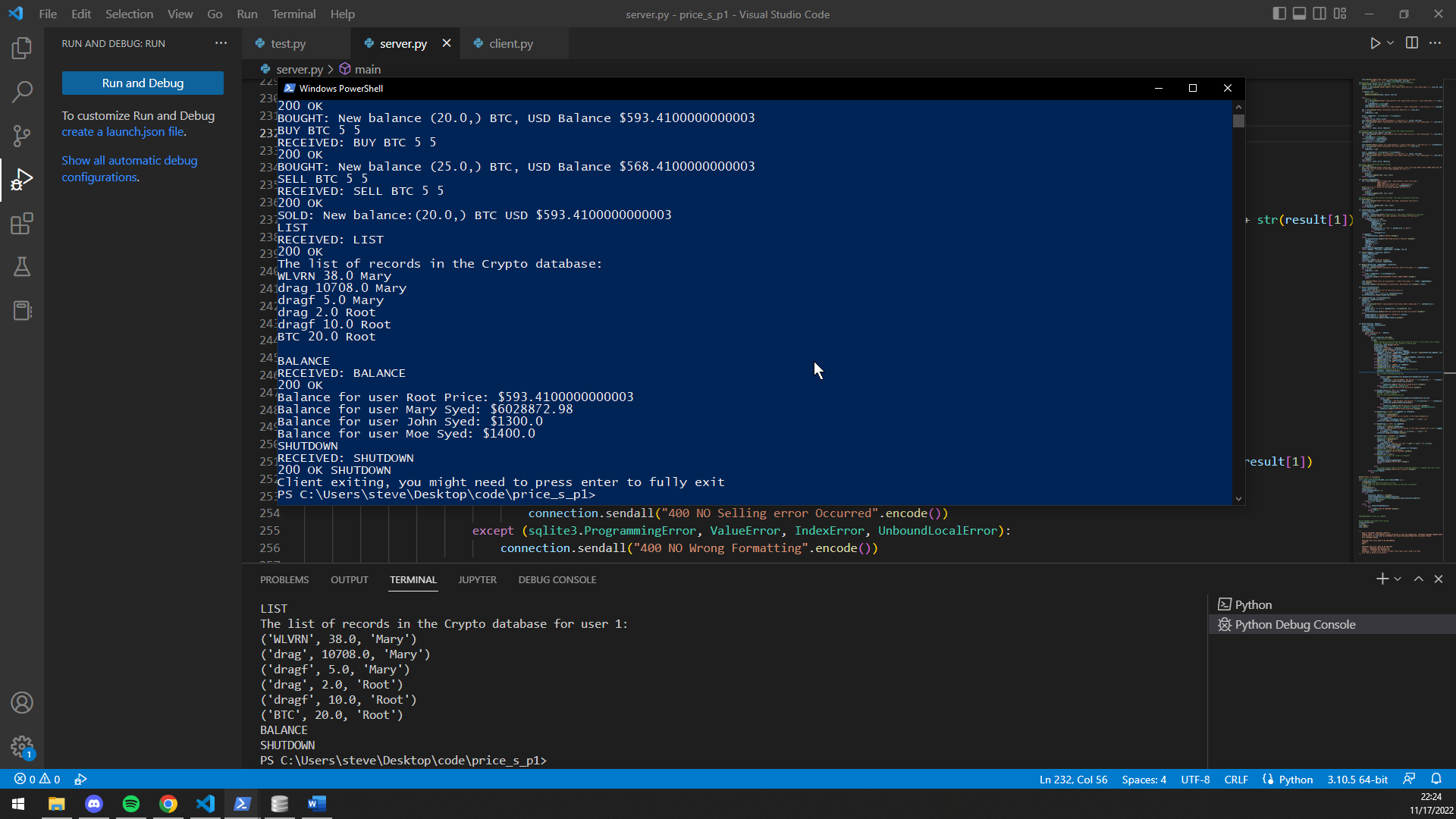
Python client.py IPADDRESS

You are able to add up to 9~ clients, as I put a soft cap onto how many clients can connect to the server.

Students Role

I worked on this project all by myself. I took on the role of creating the client, creating the server, creating the database, creating the readme(everything).

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| --- | --- | --- | --- | --- | --- |
| **Test#** | **Description of Test** | **Input Value** | **Expected Output** | **Actual Output** | **Test Pass/Fail** |
| 1 | LOGIN: test correct user / password | LOGIN john john01 | 200 ok | 200 ok | Pass |
| 2 | LOGIN: test invalid input | LOGIN root password | 403 wrong username password | 403 wrong username password | Pass |
| 3 | Logout | LOGOUT | 200 ok | 200 ok | PASS |
| 4 | Logout while not logged in | LOGOUT | 400 not an option | 400 not an option | Pass |
| 5 | Who as root | WHO | 200 OK, and active users | 200 OK, and active users | Pass |
| 6 | Who as non root | WHO | 400 not an option | 400 not an option | Pass |
| 7 | LIST AS ROOT | LIST | 200 ok, shows all records in database | 200 ok shows all records in database | Pass |
| 8 | List as non root | List | 200 ok, shows records for user | 200 ok shows records for user | Pass |
| 9 | BALANCE | BALANCE | 200 ok | 200 ok | PASS |
| 10 | LOOKUP | LOOKUP | 200 ok shows records of crypto name | 200 ok shows records of crypto name | Pass |
| 11 | LOOKUP, not in db | LOOKUP | 404 your search did not match any records | 404 your search did not match any records | pass |
| 12 | DEPOSIT 4000 | DEPOSIT | 200 ok deposit successfully new balance | 200 ok deposit successfully new balance | Pass |
| 13 | DEPOSIT wrongformat | DEPOSIT 234234j | 400 no wrong format | 400 no wrong format | Pass |
| 14 | Connect with 2 clients | LOGIN | 200 ok | 200 ok | pass |
| 15 | Connect with 3 clients | Login | 200 ok | 200 ok | Pass |
| 16 | Shutdown as root | Shutdown | 200 ok | 200 ok | Pass |
| 17 | Shutdown as non root | Shutdown | 400 not an option | 400 not an option | pass |

1 client with server, running various commands2 clients with server, running commands at the same timeA screenshot of a computer

Description automatically generated