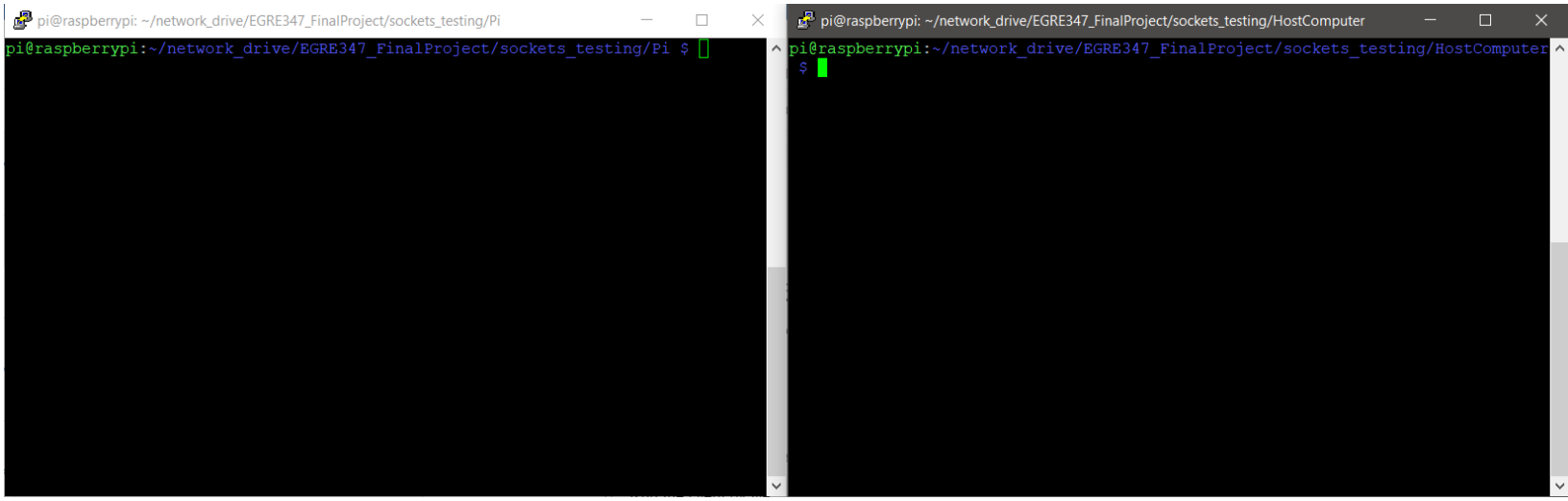
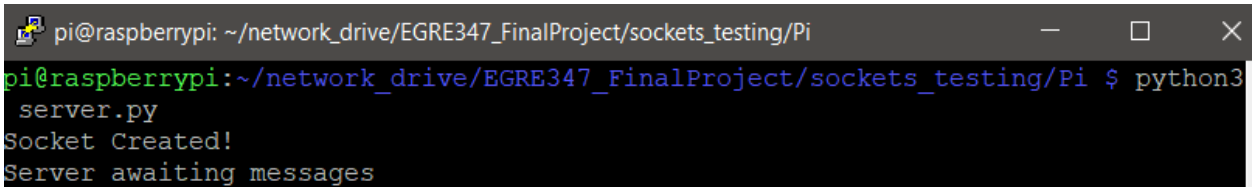
User Guide

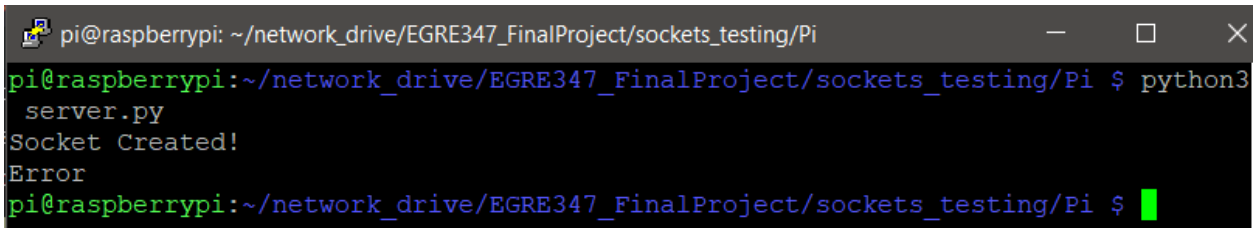
- Info for configuring your IP address(s):
    - Wireless:
        - Make sure that both the Pi and Host computer are connected to the same wireless network
        - Use the DHCP IP addresses provided by the wireless network instead of the statically assigned IP on the Pi
    - Ethernet:
        - Use the static IP address for the raspberry Pi on both the client and server for a simple configuration only on the Pi (ours is 192.168.1.23)
        - You can also use the IP address for the Pi on the client and the IP address for the host computer on the server so it they are mutually connected
- How to run the program (Ethernet configuration):
    - Use putty to SSH into your raspberry pi and open two terminals
    - Change your directory to ***/EGRE347_FinalProject/sockets_testing/Pi** on the left terminal for the server terminal
    - Change your directory to ***/EGRE347_FinalProject/sockets_testing/HostComputer** on the right terminal for the client terminal



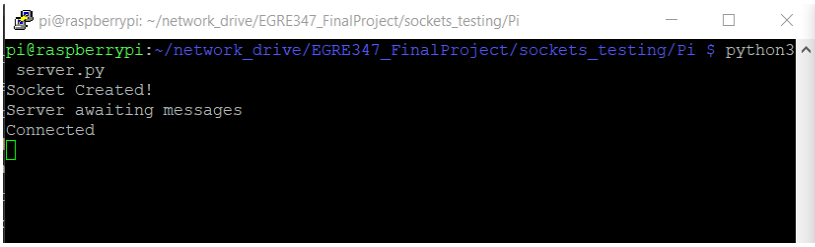
    - Run the server.py file first
        - Type **python3 server.py** in the server terminal (left)
        - If it ran successfully it should look like this:

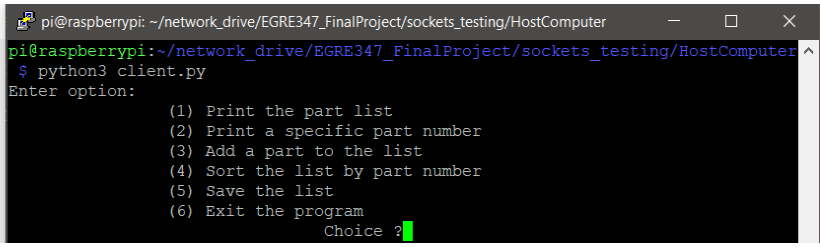


        - If there is a socket-created error just try running the server again until it does (be patient) or check your IP configuration:



    - Run the client.py file
        - Type **python3 client.py** in the client terminal (right) after running server.py in the other terminal
        - The output should look like this on both terminals if the connection is successful
            - If there is a connection error you may have an issue with your IP configuration or just try running server.py again





- How to use the menu options:
    - Option 1:
        - Prints the current parts list in the database
    - Option 2:
        - Prompts the user for a part number to print specifically
    - Option 3:
        - Prompts the user for part information to add a part object to the list of parts
    - Option 4:
        - Sorts the list of parts by part number
    - Option 5:
        - Saves the current list of parts to a file on the server called “outfile.part”
    - Option 6:
        - Exits the program and cuts the connection between server and client