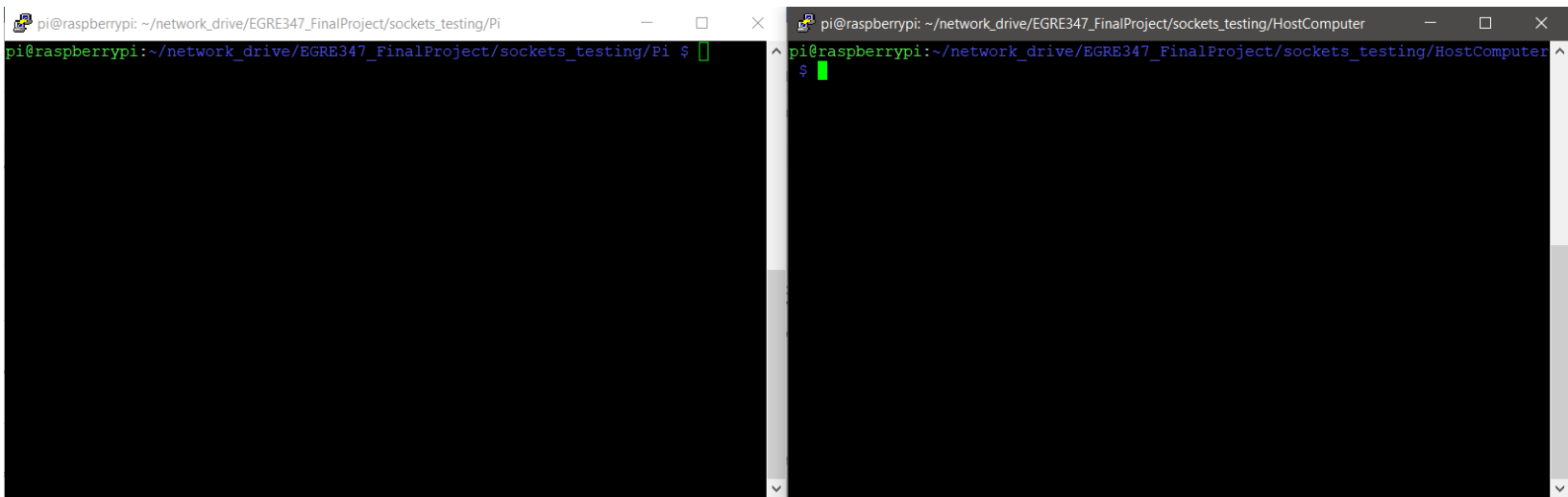# Project User Guide

- How to configure your IP address(s):
  - Wireless:
    -
  - Ethernet:
    -
- 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/HostCompute**r on the right terminal for the client terminal
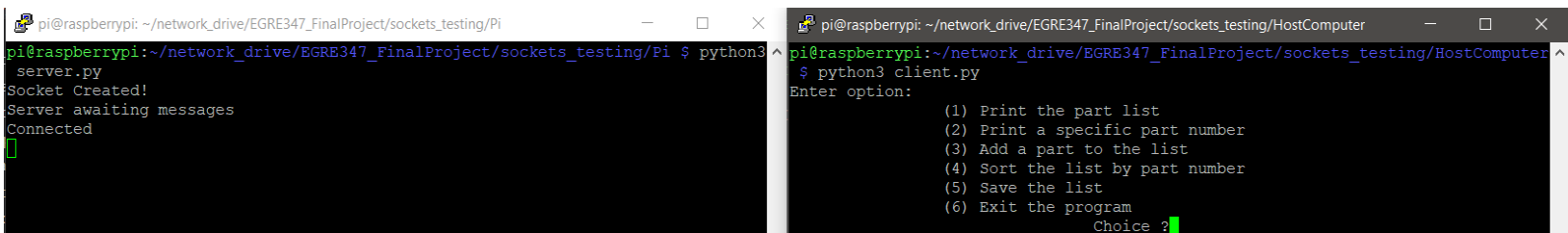

  - Run the server.py file first
    - Type **python3 server.py** in the server terminal (left)
    - If it ran successfully it should look like this:

    - 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


```
pi@raspberrypi: ~/network_drive/EGRE347_FinalProject/sockets_testing/Pi
pi@raspberrypi:~/network_drive/EGRE347_FinalProject/sockets_testing/Pi $ python3
server.py
Socket Created!
Server awaiting messages
Connected
```

```
pi@raspberrypi: ~/network_drive/EGRE347_FinalProject/sockets_testing/HostComputer
pi@raspberrypi:~/network_drive/EGRE347_FinalProject/sockets_testing/HostComputer
 $ python3 client.py
Enter option:
              (1) Print the part list
              (2) Print a specific part number
              (3) Add a part to the list
              (4) Sort the list by part number
              (5) Save the list
              (6) Exit the program
                      Choice ?
```

- ● How to use the menu options:
  - ○ Option 1:
    - ■
  - ○ Option 2:
    - ■
  - ○ Option 3:
    - ■
  - ○ Option 4:
    - ■
  - ○ Option 5:
    - ■
  - ○ Option 6:
    - ■