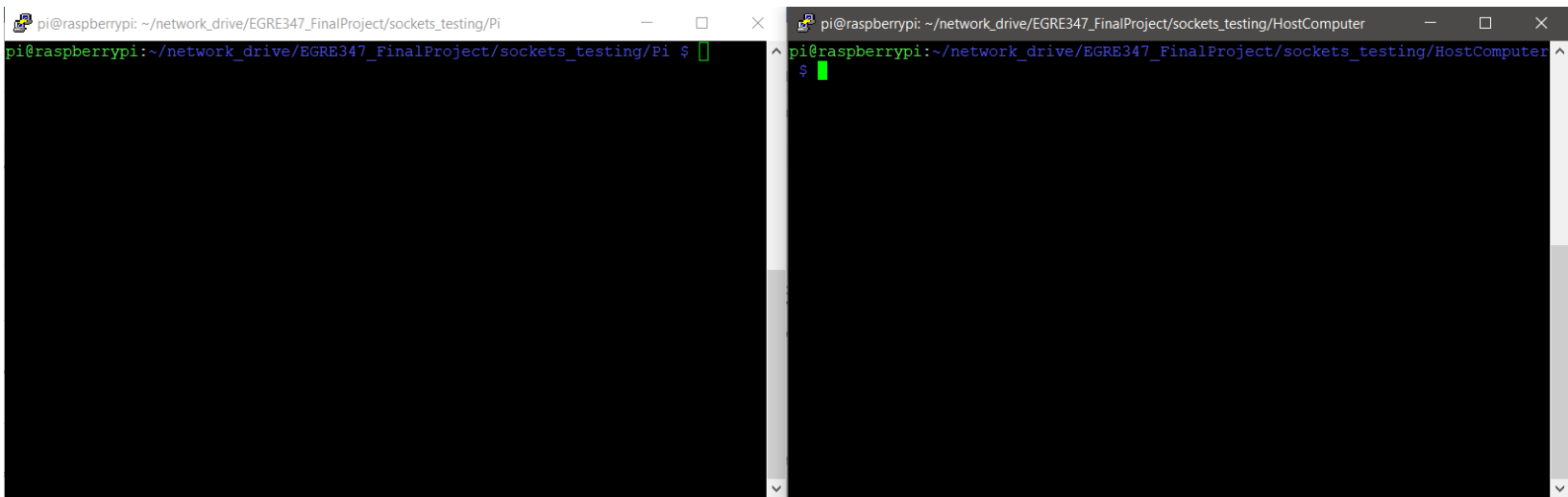


# Project User Guide

- 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/HostComputer** on the right terminal for the client terminal



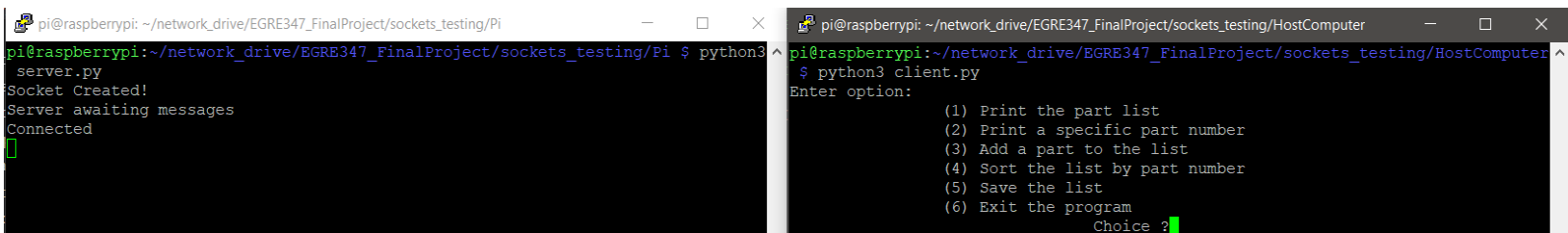
- Run the server.py file first
  - Type **python3 server.py** in the server terminal (left)
  - If it ran successfully it should look like this:

```
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
```

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

```
pi@raspberrypi: ~/network_drive/EGRE347_FinalProject/sockets_testing/Pi
pi@raspberrypi:~/network_drive/EGRE347_FinalProject/sockets_testing/Pi $ python3
server.py
Socket Created!
Error
pi@raspberrypi:~/network_drive/EGRE347_FinalProject/sockets_testing/Pi $
```

- 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



The image shows two terminal windows side-by-side. The left window is titled 'pi@raspberrypi: ~/network\_drive/EGRE347\_FinalProject/sockets\_testing/Pi' and shows the execution of 'python3 server.py'. The output is: 'Socket Created!', 'Server awaiting messages', 'Connected', and a green cursor. The right window is titled 'pi@raspberrypi: ~/network\_drive/EGRE347\_FinalProject/sockets\_testing/HostComputer' and shows the execution of 'python3 client.py'. The output is: 'Enter option:', a list of six options (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, and 'Choice ?' with a green cursor.

```
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 $ 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:
    -