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## Python Chat App

The Python Chat Application is a combination of two applications:

- server.py
- client.py

The app needs the server.py program to start first as it needs to first bind to the socket before the client.py program can connect. Otherwise, you will see an error in the client like this:

```
Traceback (most recent call last):
  File "C:\Users\jesse\PycharmProjects\chatprogram\client.py", line 8, in <module>
    mysocket.connect((host, port))
ConnectionRefusedError: [WinError 10061] No connection could be made because the
target machine actively refused it

Process finished with exit code 1
```

### To run the application:

First open two separate instances of the command prompt.

Then navigate to the file location of the server.py file and then type:

“Python3 server.py”

```
PS C:\Users\jesse\PycharmProjects\chatprogram> Python3 server.py
Connected to :('192.168.1.6', 52132)
Type /q to quit
Waiting for message...
```

Then in the separate instance navigate to the client.py program and then type:

“Python3 client.py”

```
PS C:\Users\jesse\PycharmProjects\chatprogram> Python3 client.py
Type /q to quit
Client:
```

Here is an example of the programs' full execution:

Client program:

```
PS C:\Users\jesse\PycharmProjects\chatprogram> Python3 client.py
Type /q to quit
Client: hi
Waiting for message...
Server: hello
Client: what is your name
Waiting for message...
Server: my name is foo what is your name
Client: Hi foo, my name is bar.
Waiting for message...
Server: Nice to meet you foo. Goodbye
Client: Nice to meet you too bar. Goodbye have a nice day
Waiting for message...
Server: you hang up first
Client: no you hang up first
Waiting for message...
Server: noooo you hang up first
Client: okay <3
Waiting for message...
Server: okay </3 :( bye
Client: /q
PS C:\Users\jesse\PycharmProjects\chatprogram>
```

Server Program:

```
PS C:\Users\jesse\PycharmProjects\chatprogram> Python3 server.py
Connected to :('192.168.1.6', 52132)
Type /q to quit
Waiting for message...
Client: hi
Server: hello
Waiting for message...
Client: what is your name
Server: my name is foo what is your name
Waiting for message...
Client: Hi foo, my name is bar.
Server: Nice to meet you foo. Goodbye
Waiting for message...
Client: Nice to meet you too bar. Goodbye have a nice day
Server: you hang up first
Waiting for message...
Client: no you hang up first
Server: noooo you hang up first
Waiting for message...
Client: okay <3
Server: okay </3 :( bye
Waiting for message...
PS C:\Users\jesse\PycharmProjects\chatprogram>
```