

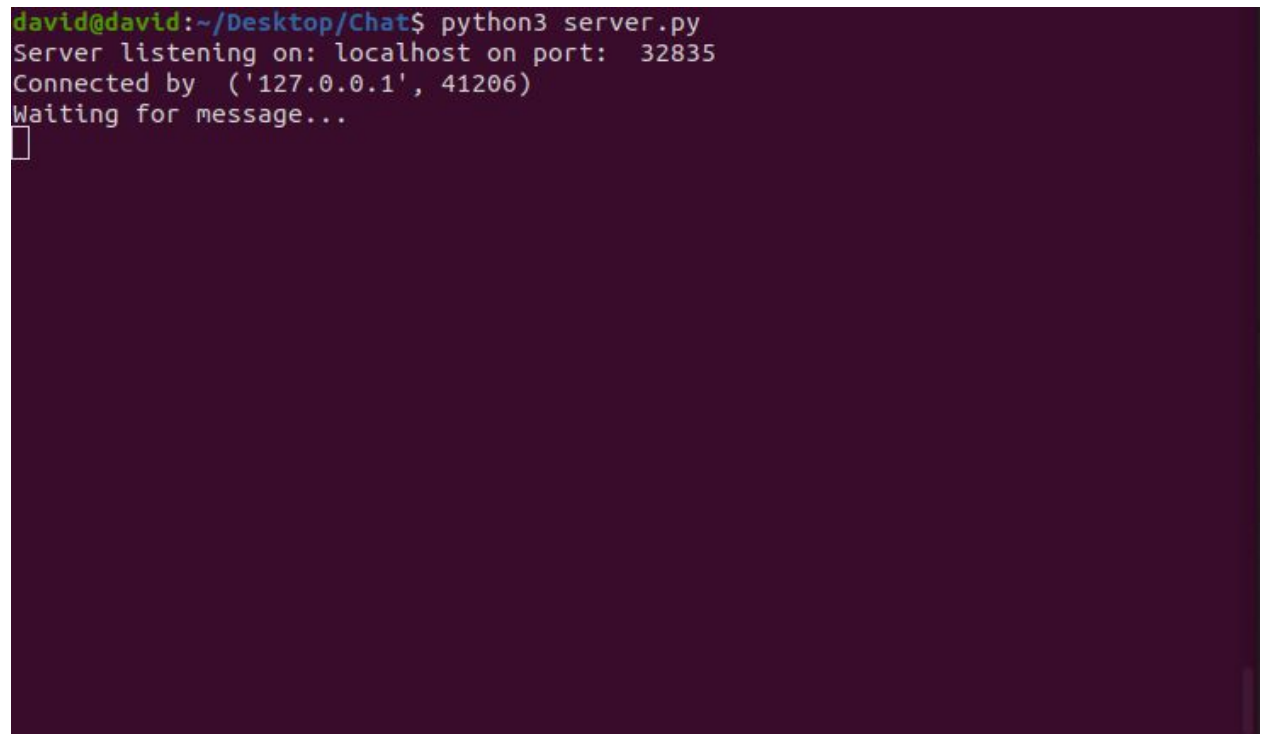
Youli Zhao
zhaoyo@oregonstate.edu
03/15/2021

Instructions on how to run the programs. Are they python3?

To run the programs, first run the server with command: python3 server.py.
Then run the client with python3 client.py.
The server.py and client.py must be in the same folder.

Yes, they are python3 files.

Screenshots running code.

A terminal window with a dark purple background. The text shows a user named 'david' at a prompt 'david@david:~/Desktop/Chat\$' running the command 'python3 server.py'. The output shows the server listening on localhost port 32835, a connection from '127.0.0.1' on port 41206, and it is waiting for a message. A cursor is visible on the line 'Waiting for message...'.

```
david@david:~/Desktop/Chat$ python3 server.py
Server listening on: localhost on port: 32835
Connected by ('127.0.0.1', 41206)
Waiting for message...
█
```

```
david@david:~/Desktop/Chat$ python3 client.py
Connected to: localhost on port: 32835
Type /q to quit
Enter message to send...
>
```

```
david@david:~/Desktop/Chat$ python3 server.py
Server listening on: localhost on port: 32835
Connected by ('127.0.0.1', 41206)
Waiting for message...
Type /q to quit
1+1=?
Enter message to send...
>2 for sure
ok thanks
>you are welcome
david@david:~/Desktop/Chat$
```

```
david@david:~/Desktop/Chat$ python3 client.py
Connected to: localhost on port: 32835
Type /q to quit
Enter message to send...
>1+1=?
2 for sure
>ok thanks
you are welcome
>/q
david@david:~/Desktop/Chat$
```

Comment:

The server automatically picks a port and passes it to the client by a file call PORT. After the client read the file, it will delete it.