

# *Tic Tac Toe Chatroom Instructions*

## Notes

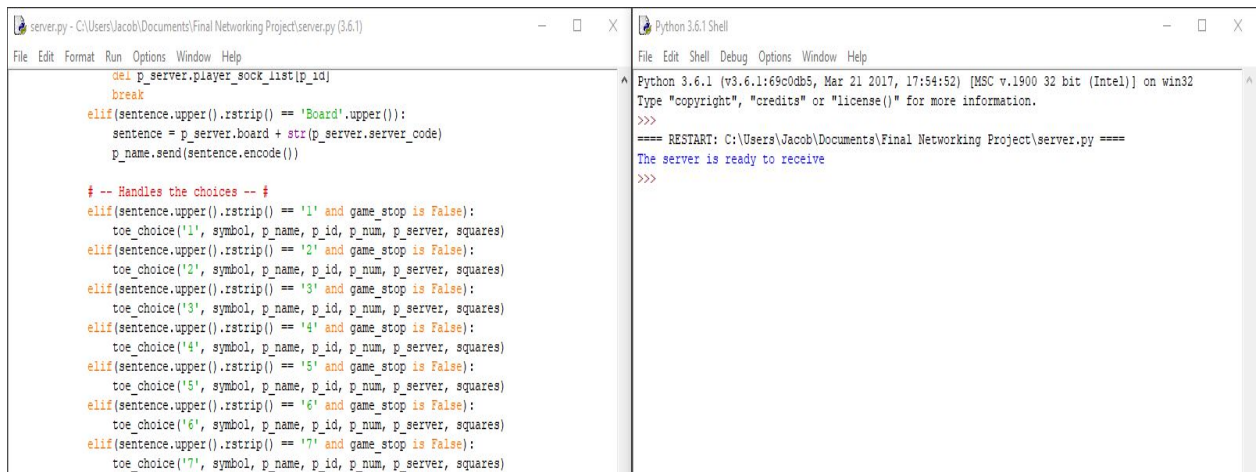
=====

- The server and client programs are coded in python version 3.6.1 and would likely run into issues if you're using any version below the 3's.
- The server host a maximum of eight clients at a time in its lobby. Any excess players will hang in the lobby and wait for a spot to open.

## Steps to run

=====

1. First, navigate to IDLE (or use a shell, navigate to the server.py file and run python server.py), then go to Run in the top bar of IDLE and click Run Module. This will start the server.



```
server.py - C:\Users\Jacob\Documents\Final Networking Project\server.py (3.6.1)
File Edit Format Run Options Window Help

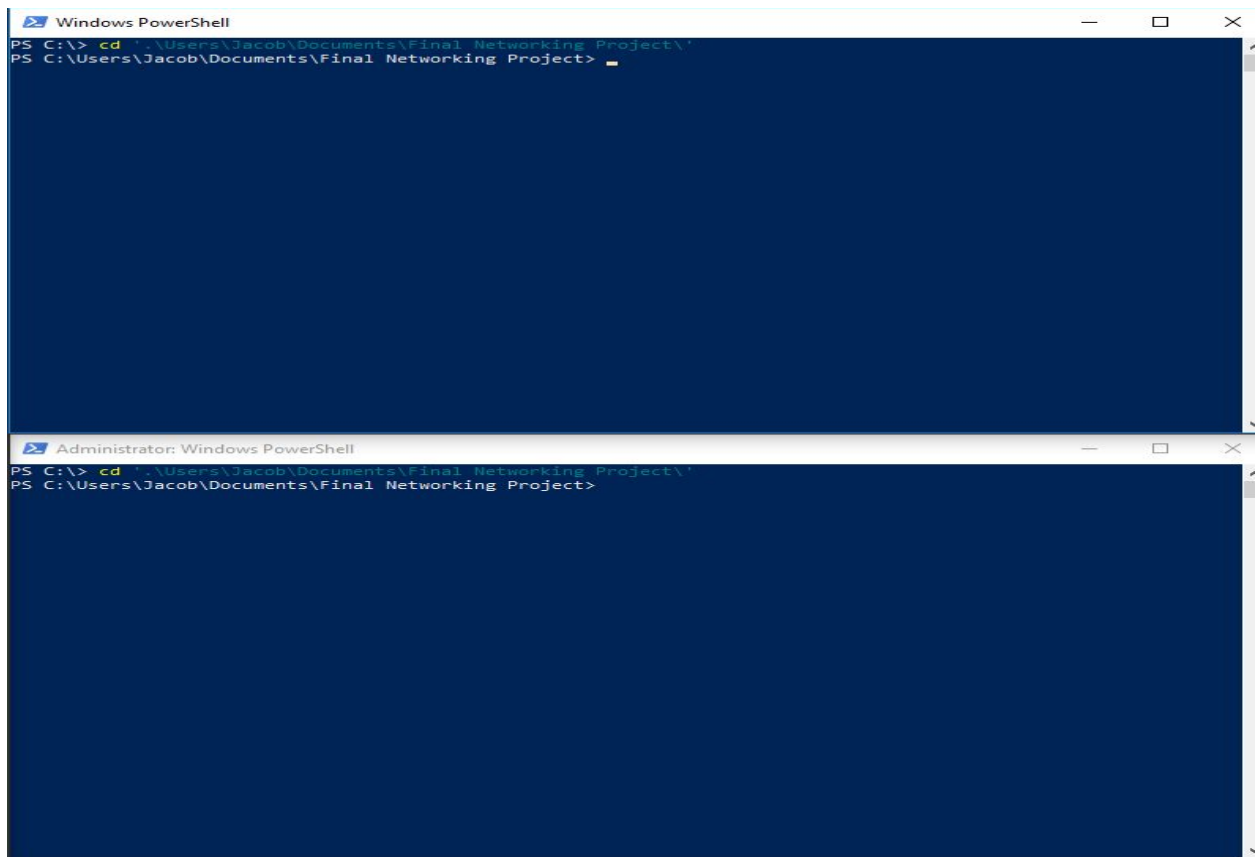
get p_server.player_sock_list[p_id]
break
elif(sentence.upper().rstrip() == 'Board'.upper()):
    sentence = p_server.board + str(p_server.server_code)
    p_name.send(sentence.encode())

# -- Handles the choices -- #
elif(sentence.upper().rstrip() == '1' and game_stop is False):
    toe_choice('1', symbol, p_name, p_id, p_num, p_server, squares)
elif(sentence.upper().rstrip() == '2' and game_stop is False):
    toe_choice('2', symbol, p_name, p_id, p_num, p_server, squares)
elif(sentence.upper().rstrip() == '3' and game_stop is False):
    toe_choice('3', symbol, p_name, p_id, p_num, p_server, squares)
elif(sentence.upper().rstrip() == '4' and game_stop is False):
    toe_choice('4', symbol, p_name, p_id, p_num, p_server, squares)
elif(sentence.upper().rstrip() == '5' and game_stop is False):
    toe_choice('5', symbol, p_name, p_id, p_num, p_server, squares)
elif(sentence.upper().rstrip() == '6' and game_stop is False):
    toe_choice('6', symbol, p_name, p_id, p_num, p_server, squares)
elif(sentence.upper().rstrip() == '7' and game_stop is False):
    toe_choice('7', symbol, p_name, p_id, p_num, p_server, squares)

Python 3.6.1 Shell
File Edit Shell Debug Options Window Help

Python 3.6.1 (v3.6.1:69c0db5, Mar 21 2017, 17:54:52) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:\Users\Jacob\Documents\Final Networking Project\server.py ====
The server is ready to receive
>>>
```

2. Next, start two separate shell programs and navigate to the “Final Networking Project” on each of them.



The image shows two overlapping Windows PowerShell windows. The top window is titled 'Windows PowerShell' and the bottom window is titled 'Administrator: Windows PowerShell'. Both windows show the same command sequence: 'PS C:\> cd '..\Users\Jacob\Documents\Final Networking Project\' followed by 'PS C:\Users\Jacob\Documents\Final Networking Project>'. The command prompt is currently at the end of the second line in both windows.

```
Windows PowerShell
PS C:\> cd '..\Users\Jacob\Documents\Final Networking Project\'
PS C:\Users\Jacob\Documents\Final Networking Project>

Administrator: Windows PowerShell
PS C:\> cd '..\Users\Jacob\Documents\Final Networking Project\'
PS C:\Users\Jacob\Documents\Final Networking Project>
```

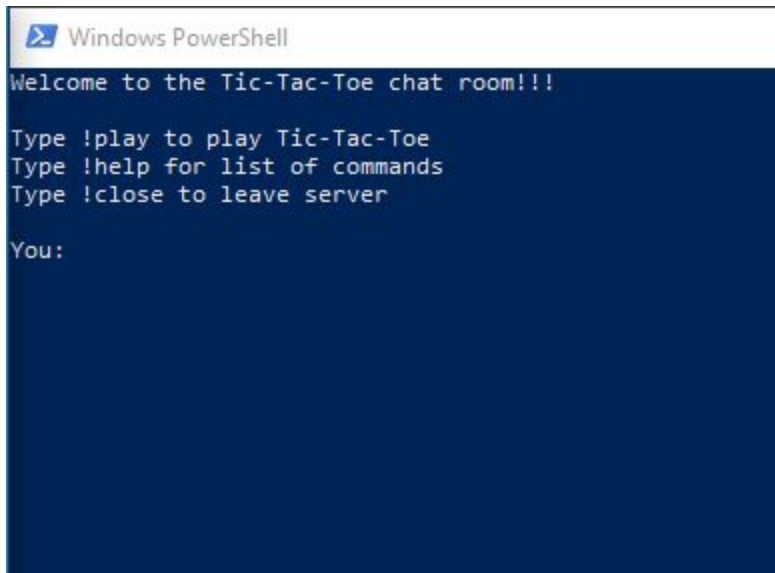
3. Next, you will type in the command “python client.py 127.0.0.1 12000” on each of these shells to run the client program. 127.0.0.1 is your loopback address and is only used for testing since the server runs locally, however, you can connect to any computer running

the server.

```
PS C:\> cd '.\Users\Jacob\Documents\Final Networking Project\'
PS C:\Users\Jacob\Documents\Final Networking Project> python client.py 127.0.0.1 12000
```

```
Administrator: Windows PowerShell
PS C:\> cd '.\Users\Jacob\Documents\Final Networking Project\'
PS C:\Users\Jacob\Documents\Final Networking Project> python client.py 127.0.0.1 12000
```

4. You should now be met with a welcome screen that looks like this.

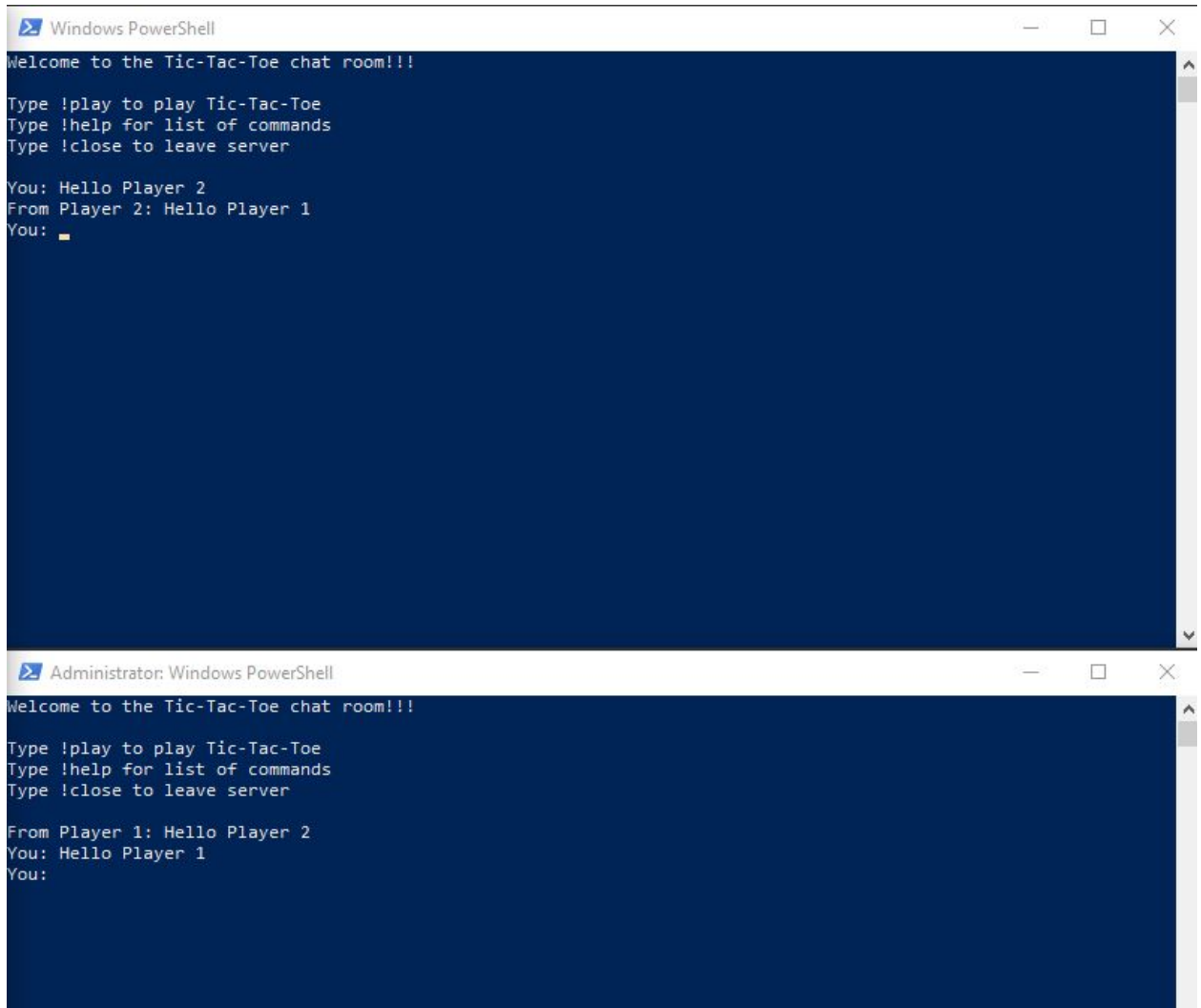


```
Windows PowerShell
Welcome to the Tic-Tac-Toe chat room!!!

Type !play to play Tic-Tac-Toe
Type !help for list of commands
Type !close to leave server

You:
```

5. Each player may type and send commands as they please. The other players in the room will receive it.



The image displays two screenshots of Windows PowerShell windows, illustrating a chat room interface for a Tic-Tac-Toe game.

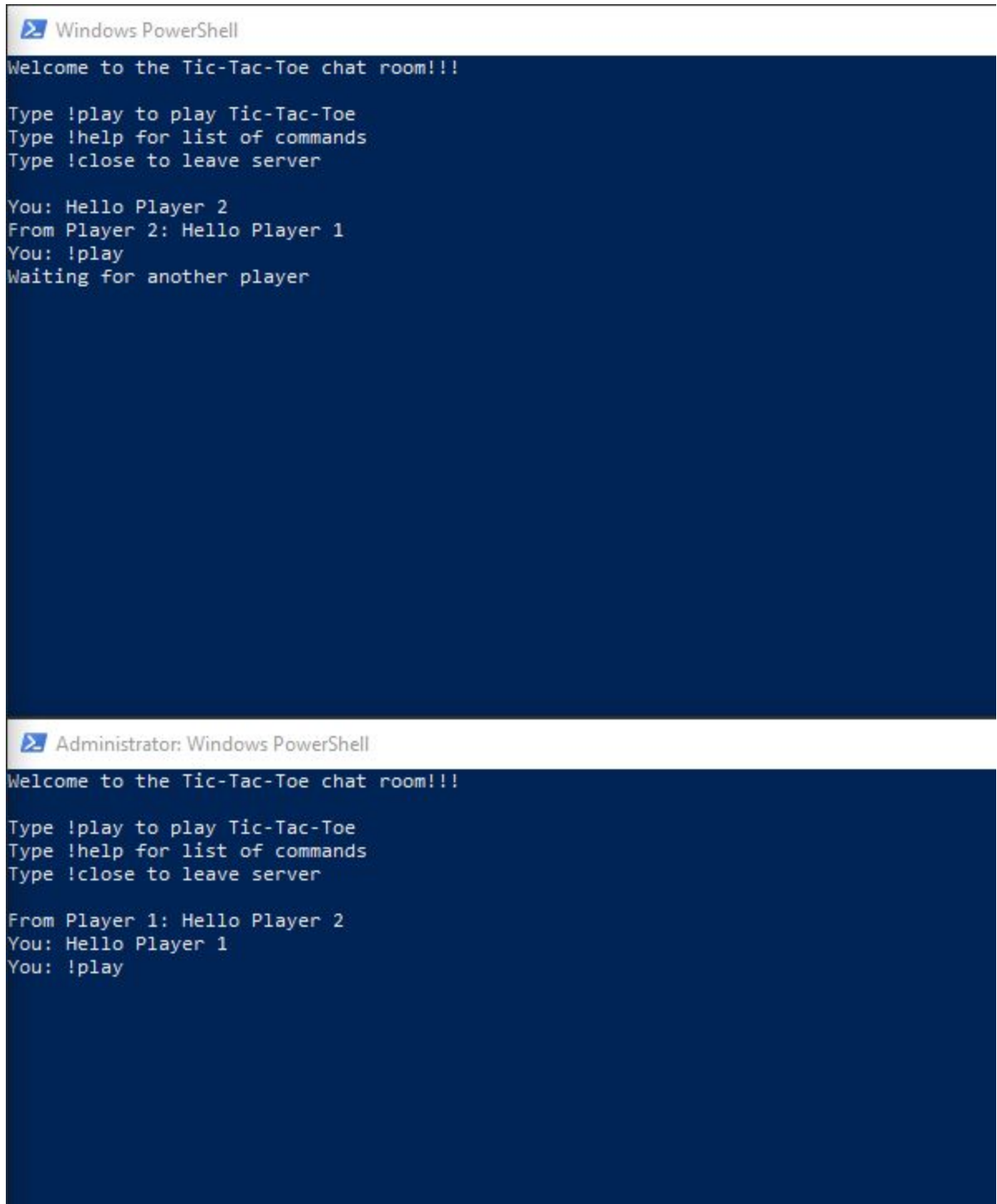
The top window, titled "Windows PowerShell", shows the following text:

```
Welcome to the Tic-Tac-Toe chat room!!!  
  
Type !play to play Tic-Tac-Toe  
Type !help for list of commands  
Type !close to leave server  
  
You: Hello Player 2  
From Player 2: Hello Player 1  
You: █
```

The bottom window, titled "Administrator: Windows PowerShell", shows the following text:

```
Welcome to the Tic-Tac-Toe chat room!!!  
  
Type !play to play Tic-Tac-Toe  
Type !help for list of commands  
Type !close to leave server  
  
From Player 1: Hello Player 2  
You: Hello Player 1  
You:
```

6. To play the game, enter "!play" into each console. When the first player enters it, it will tell them that they are waiting on another to join. When the second enters it, it will spawn the game.



The image displays two screenshots of Windows PowerShell windows, each showing a chat room interface for a Tic-Tac-Toe game. The top window is titled "Windows PowerShell" and the bottom window is titled "Administrator: Windows PowerShell". Both windows have a dark blue background with white text.

**Top Window (Windows PowerShell):**

```
Welcome to the Tic-Tac-Toe chat room!!!

Type !play to play Tic-Tac-Toe
Type !help for list of commands
Type !close to leave server

You: Hello Player 2
From Player 2: Hello Player 1
You: !play
Waiting for another player
```

**Bottom Window (Administrator: Windows PowerShell):**

```
Welcome to the Tic-Tac-Toe chat room!!!

Type !play to play Tic-Tac-Toe
Type !help for list of commands
Type !close to leave server

From Player 1: Hello Player 2
You: Hello Player 1
You: !play
```

7. You should see a screen like this on each.

```
Administrator: Windows PowerShell

Welcome to the Tic-Tac-Toe game!!!
Type and enter the letter you want your mark on

Enter quit to quit

 1|2|3
-|-|-
4|5|6
-|-|-
7|8|9
-|-|-

Your turn
You:
```

8. The board is made up of numbers 1 to 9, type and enter the number where you want your symbol (either 'o' or 'x') to be placed. It will replaced the number with your symbol.
9. To leave the game you simply type and enter quit, which will send you back to the lobby. You can do this either after winning, drawing, or before either of these.
10. To leave the lobby, type and enter the command "!close"
11. This software was made to host eight players on each lobby, you may add and remove players as you please. You can open more terminals and followed the same process listed. No game will affect the state of the other chats as designed. Have fun! :)

