

INFO1112-Assignment Testing Report

- Login

- Welcome

- Error: User not found message (to stderr)

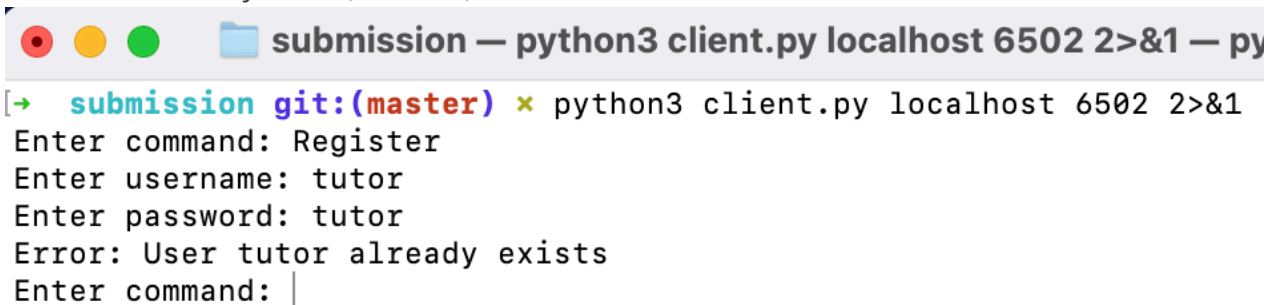
```
[→ submission git:(master) ✖ python3 client.py localhost 6502 2>&1
Enter command: login
Enter username: tutor
Enter password: tuor
Error: User tutor not found
Enter command: |
```

- Error: Wrong password for user (to stderr)

```
[→ submission git:(master) ✖ python3 client.py localhost 6502 2>&1
Enter command: login
Enter username: kurt
Enter password: tutor
Error: Wrong password for user kurt
Enter command: |
```

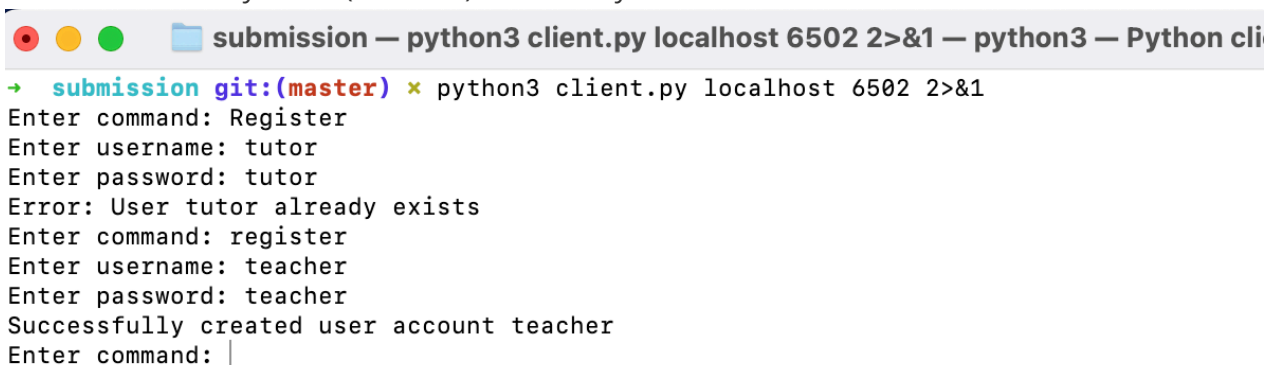
- Register

- Error: User already exists (to stderr)



```
[→ submission git:(master) ✖ python3 client.py localhost 6502 2>&1
Enter command: Register
Enter username: tutor
Enter password: tutor
Error: User tutor already exists
Enter command: |
```

- Error: User already exists (to stderr)Successfully created user account



```
→ submission git:(master) ✖ python3 client.py localhost 6502 2>&1
Enter command: Register
Enter username: tutor
Enter password: tutor
Error: User tutor already exists
Enter command: register
Enter username: teacher
Enter password: teacher
Successfully created user account teacher
Enter command: |
```

- BADAUTH

- Error: You must be logged in to perform this action

```

submission — python3 client.py localhost 6502 2>&1 — python3 — Python client.py
[→ submission git:(master) ✖ python3 client.py localhost 6502 2>&1
Enter command: Register
Enter username: tutor
Enter password: tutor
Error: User tutor already exists
Enter command: register
Enter username: teacher
Enter password: teacher
Successfully created user account teacher
Enter command: register
Enter username: player
Enter password: 89j&^%$$%
Successfully created user account player
Enter command: create
Enter room name you want to create: room1
Error: You must be logged in to perform this action.
Enter command: |

```

- ROOMLIST

- Do you want to have a room list as player or viewer? (Player/Viewer)
Enter command: login
Enter username: gary
Enter password: gary
Welcome gary
Enter command: roomlist
Do you want to have a room list as player or viewer? (Player/Viewer): jkjk
Error: Please input a valid mode.
Enter command: |
- Room available to join as : Room 1,epic room 2,another epic room
Enter username: gary
Enter password: gary
Welcome gary
Enter command: roomlist
Do you want to have a room list as player or viewer? (Player/Viewer): jkjk
Error: Please input a valid mode.
Enter command: roomlist
Do you want to have a room list as player or viewer? (Player/Viewer): player
Room available to join as PLAYER: room1
Enter command: |
- Error: Please input a valid mode.
Enter password: gary
Welcome gary
Enter command: roomlist
Do you want to have a room list as player or viewer? (Player/Viewer): jkjk
Error: Please input a valid mode.
Enter command: |

- Create

- Enter room name you want to create:

```
Enter username: kurt
Enter password: kurt
Welcome kurt
Enter command: create
Enter room name you want to create: room1
Successfully created room room1
Waiting for other player...
```

```
|
```

- Waiting for other player...

```
Enter room name you want to create: room1
Successfully created room room1
Waiting for other player...
```

```
|
```

- Error: Room is invalid (to stderr)

```
Enter command: create
Enter room name you want to create: ))))
Error: Room )))) is invalid
Enter command: |
```

- Error: Room already exists (to stderr)

```
Enter room name you want to create: ))))
Error: Room )))) is invalid
Enter command: create
Enter room name you want to create: room1
Error: Room room1 already exists
Enter command: |
```

- JOIN

- You wish to join the room as: (Player/Viewer)

```
Welcome tutor
Enter command: join
Enter room name you want to join: room
You wish to join the room as: (Player/Viewer):
Error: No room named room
Enter command: join
```

- Successfully joined room as a

- Error: No room named (to stderr)

```
Enter password: tutor
Welcome tutor
Enter command: join
Enter room name you want to join: room
You wish to join the room as: (Player/Viewer):
Error: No room named room
Enter command: join
```

- Error: The room already has 2 players to stderr

```
-----
Welcome tutor
Enter command: join
Enter room name you want to join: room
You wish to join the room as: (Player/Viewer):
Error: No room named room
Enter command: join
Enter room name you want to join: room1
You wish to join the room as: (Player/Viewer): playe
Error: The room room1 already has 2 players
Enter command: |
```

- BEGIN

- match between <player 1> and <player 2> will commence, it is currently <player 1>'s turn.

```
Enter command: create
Enter room name you want to create: room1
Successfully created room room1
Waiting for other player...
match between kurt and gary will commence, it is currently kurt's turn.
Enter command: □
```

- BOARDStatus

-

```

match between kurt and gail.
Enter command: place
Enter column (0-2): 1
Enter row (0-2): 1
-----
|   |   |   |
-----
|   | X |   |
-----
|   |   |   |
-----
It is kurt's turn

```

- GAMEEND

- won due to the opposing player forfeiting

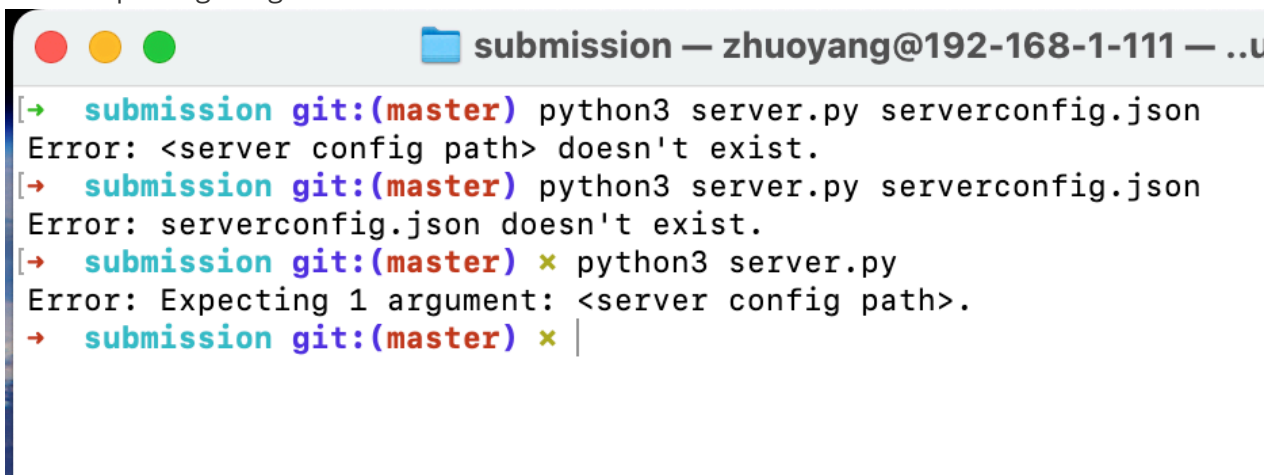
```

Enter command: forfeit
-----
|   |   |   |
-----
|   |   |   |
-----
|   |   |   |
-----
It is kurt's turn
kurt won due to the opposing player forfeiting.

```

- Server launching

- Error: Expecting 1 argument: .



```

submission — zhuoyang@192-168-1-111 — ..u
[→ submission git:(master) python3 server.py serverconfig.json
Error: <server config path> doesn't exist.
[→ submission git:(master) python3 server.py serverconfig.json
Error: serverconfig.json doesn't exist.
[→ submission git:(master) ✕ python3 server.py
Error: Expecting 1 argument: <server config path>.
→ submission git:(master) ✕ |

```

- Error: doesn't exist.

```
submission — zhuoyang@192-168-1-111 — ..ub/
[→ submission git:(master) python3 server.py serverconfig.json
Error: <server config path> doesn't exist.
[→ submission git:(master) python3 server.py serverconfig.json
Error: serverconfig.json doesn't exist.
→ submission git:(master) × |
```

- Error: config path> is not in a valid JSON format.

```
submission — zhuoyang@192-168-1-111 — ..ub/submission — -zsh — 11
[→ submission git:(master) python3 server.py serverconfig.json
Error: <server config path> doesn't exist.
[→ submission git:(master) python3 server.py serverconfig.json
Error: serverconfig.json doesn't exist.
[→ submission git:(master) × python3 server.py
Error: Expecting 1 argument: <server config path>.
[→ submission git:(master) × python3 server.py serverconfig.json
Error: serverconfig.json is not in a valid JSON format.
→ submission git:(master) × |
```

- Error: missing key(s):

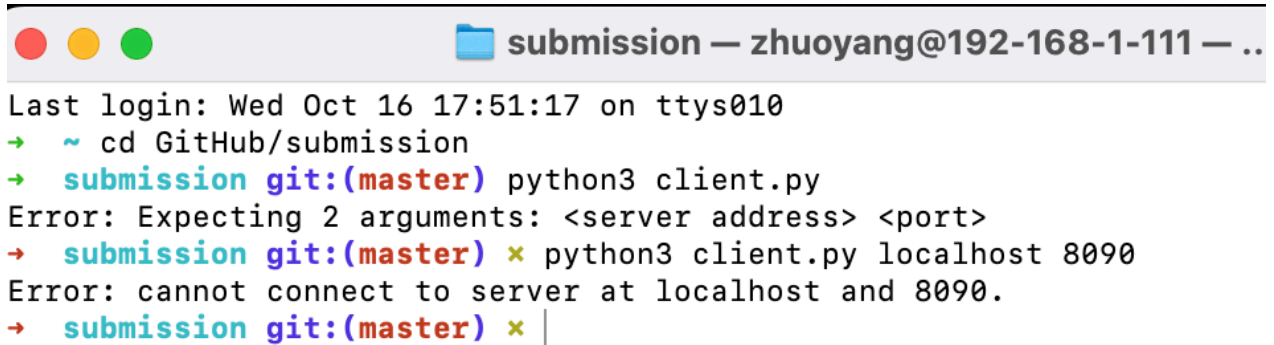
```
submission — zhuoyang@192-168-1-111 — ..ub/submission — -zsh — 11
[→ submission git:(master) python3 server.py serverconfig.json
Error: <server config path> doesn't exist.
[→ submission git:(master) python3 server.py serverconfig.json
Error: serverconfig.json doesn't exist.
[→ submission git:(master) × python3 server.py
Error: Expecting 1 argument: <server config path>.
[→ submission git:(master) × python3 server.py serverconfig.json
Error: serverconfig.json is not in a valid JSON format.
[→ submission git:(master) × python3 server.py serverconfig.json
Error: serverconfig.json missing key(s): port
→ submission git:(master) × |
```

- Client Launching

- Error: Expecting 2 arguments:

```
submission — zhuoyang@192-168-1-11
Last login: Wed Oct 16 17:51:17 on ttys010
[→ ~ cd GitHub/submission
[→ submission git:(master) python3 client.py
Error: Expecting 2 arguments: <server address> <port>
→ submission git:(master) × |
```

- Error: cannot connect to server at and .



```

submission — zhuoyang@192-168-1-111 — ..
Last login: Wed Oct 16 17:51:17 on ttys010
→ ~ cd GitHub/submission
→ submission git:(master) python3 client.py
Error: Expecting 2 arguments: <server address> <port>
→ submission git:(master) ✖ python3 client.py localhost 8090
Error: cannot connect to server at localhost and 8090.
→ submission git:(master) ✖ |

```

- place

- (Column/Row) values must be an integer between 0 and 2

```

Enter command: place
Enter column (0-2): 3
Enter row (0-2): 3
(Column/Row) values must be an integer between 0 and 2
Enter column (0-2): |

```

- Unknown command

- Unknown command:
 ERROR: cannot connect to server at localhost and 8090.
 → submission git:(master) ✖ python3 client.py localhost 6502
 Enter command: hi tutor
 Unknown command: HI TUTOR
 Enter command: |

- Client dropped out

```

OSError: [Errno 1005] Bind() to port must be 0-65535.
[→ submission git:(master) ✖ python3 server.py serverconfig.json
Client has disconnected
█

```

I have compiled a list of I/O features tested, with screenshots of the results provided for each point. However, there are a few exceptions that I didn't include, as my game loop for handling the GAMEEND state didn't function correctly. For instance, I wasn't able to test the output for messages like "Congratulations, you won" and "Sorry, you lost. Good luck next time." Aside from these, I believe I've covered most of the I/O scenarios.