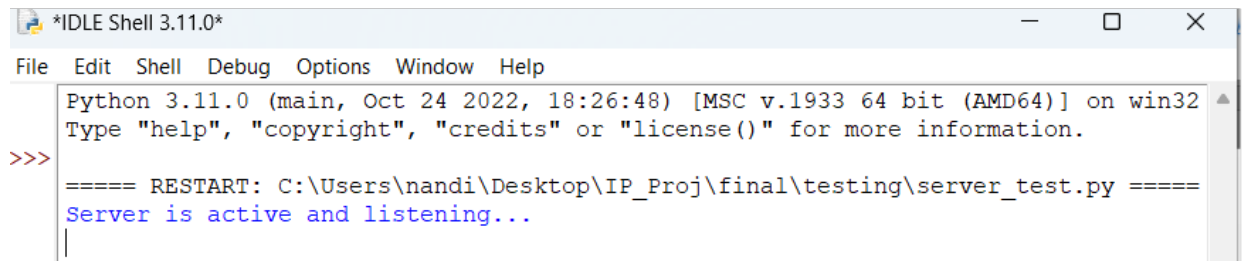
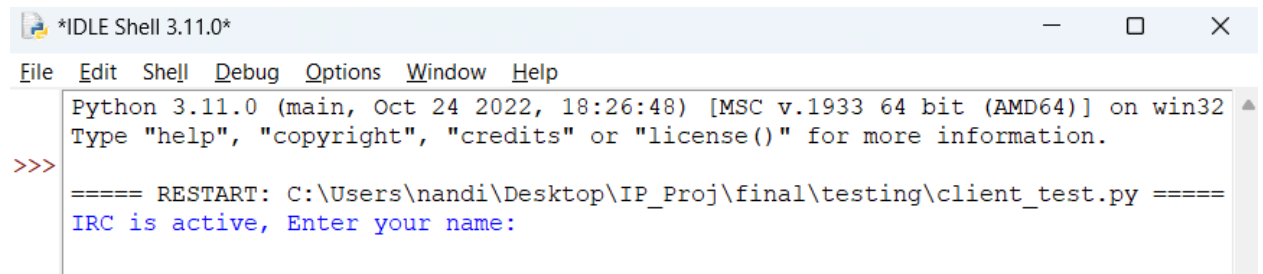


1. Starting the server:



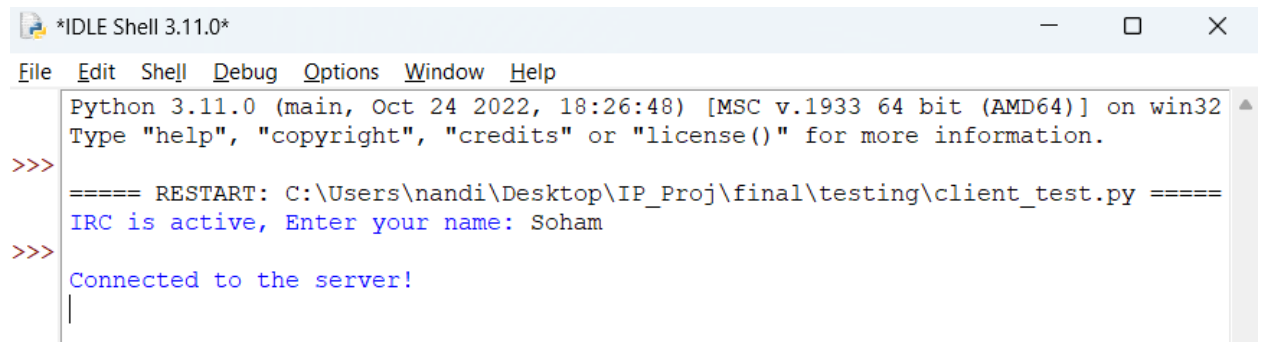
```
*IDLE Shell 3.11.0*
File Edit Shell Debug Options Window Help
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\nandi\Desktop\IP_Proj\final\testing\server_test.py =====
Server is active and listening...
|
```

2. Starting Client:



```
*IDLE Shell 3.11.0*
File Edit Shell Debug Options Window Help
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\nandi\Desktop\IP_Proj\final\testing\client_test.py =====
IRC is active, Enter your name:
|
```

3. Client Registration:



```
*IDLE Shell 3.11.0*
File Edit Shell Debug Options Window Help
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\nandi\Desktop\IP_Proj\final\testing\client_test.py =====
IRC is active, Enter your name: Soham
>>>
Connected to the server!
|
```

4. List of Commands:

help

List of commands:

- 1.\$listroom to list all the rooms
- 2.\$listusers to list all the users
- 3.\$quit to quit
- 4.\$help to list all the commands
- 5.\$leave to leave the room
- 6.\$join roomname to join or create the room
- 7.\$switch roomname to switch room
- 8.\$personal name message to send personal message

5. Client can create a room:

```
$join room308  
room308 created
```

6. Client can list all rooms:

```
[room1] Soham: $listrooms
```

List of available roomdetails:

```
room308    room1  
|
```

7. Client can join a room:

```
IRC is active, Enter your name: Tejesh
```

```
Connected to the server!
```

help

List of commands:

- 1.\$list to list all the rooms
  - 2.\$quit to quit
  - 3.\$help to list all the commands
  - 4.\$leave to leave the room
  - 5.\$join roomname to join or create the room
  - 6.\$switch roomname to switch room
  - 7.\$personal name message to send personal message
- ```
$join room308  
[room308] Tejesh joined the room|
```

```

IRC is active, Enter your name: Pratyusha
Connected to the server!

List of commands:
1.$list to list all the rooms
2.$quit to quit
3.$help to list all the commands
4.$leave to leave the room
5.$join roomname to join or create the room
6.$switch roomname to switch room
7.$personal name message to send personal message
Join $308

$join room308
[room308] Pratyusha joined the room|

```

8. Clients can list members of a room:

```

$listusers

List of available people:
Soham Pratyusha Tejesh
|

```

9. Multiple Clients can connect to a server:

```

room308
['Soham', 'Pratyusha', 'Tejesh']

```

10. Client can send messages to a room:

```

[room308] Tejesh:

[room308] Tejesh: Hi guys!|

[room308] Pratyusha:
[room308] Tejesh joined the room[room308] Tejesh: [room308] Tejesh: Hi guys![room308] Pratyusha:

```

11. Client can join multiple rooms:

```
[room308] Tejesh: $join room-106
[room-106] Tejesh joined the room
[room-106] Tejesh: $join room2
[room2] Tejesh joined the room
```

12. Client can send distinct messages to multiple rooms:

```
[room2] Tejesh: hello
[room2] Tejesh: hello
[room-106] Soham: [room2] Tejesh:
[room2] Tejesh: $switch room-106
Switched to room-106
[room-106] Tejesh: I've exam today
[room-106] Tejesh: I've exam today
[room-106] Tejesh:
```

---

13. Client can disconnect from a server:

```
[room-106] Tejesh: $quit

Tejesh left the room[room-106]
```

14. Server can gracefully handle the client crashes:

```
IRC is active, Enter your name: Soham
The username already Exists
```

15. Client can gracefully handle the server clashes:

```
IRC is active, Enter your name: Soham Nandi
Username should not contain any spaces
IRC is active, Enter your name: NAGAVENKATASAITEJESH
Username cant have maximum length greter than 10 characters
|
```