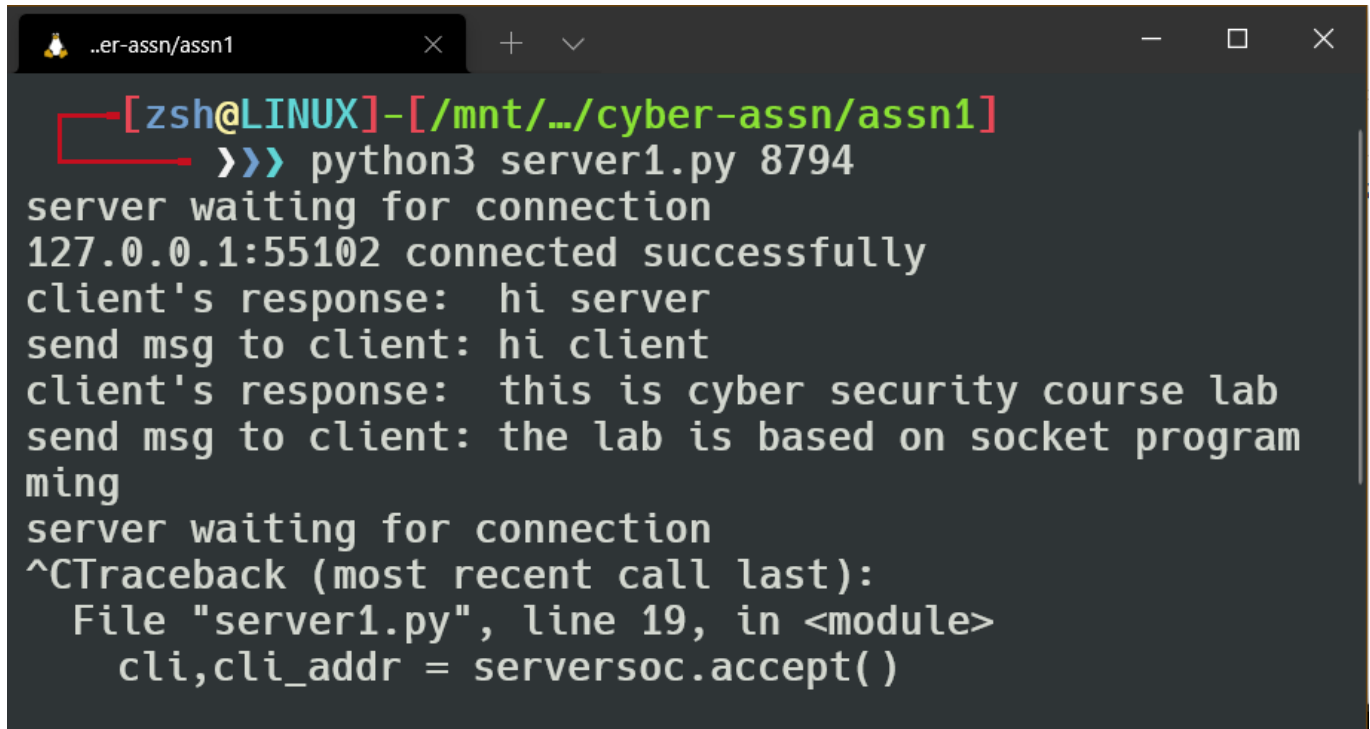


Nirbhay Sharma (B19CSE114) - Assignment-1

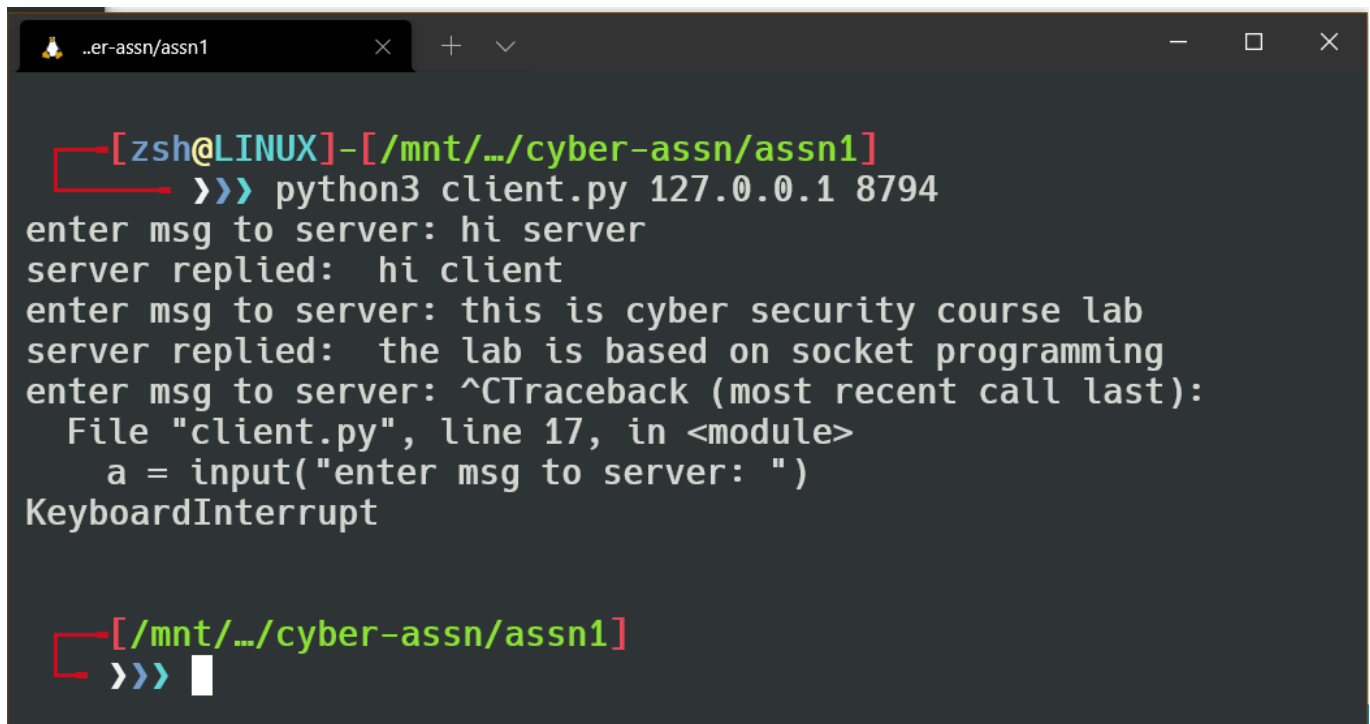
Observations for simple client server handshaking protocol

first run the server file on a particular port

A terminal window titled '..er-assn/assn1' with standard window controls. The prompt is [zsh@LINUX]-[/mnt/.../cyber-assn/assn1]. The user runs 'python3 server1.py 8794'. The output shows the server waiting for a connection, receiving a connection from 127.0.0.1:55102, exchanging 'hi' messages, and then sending a longer message about the lab. It then waits for another connection before a Ctrl+C interrupt occurs, leading to a traceback error in server1.py at line 19.

```
[zsh@LINUX]-[/mnt/.../cyber-assn/assn1]
>>> python3 server1.py 8794
server waiting for connection
127.0.0.1:55102 connected successfully
client's response: hi server
send msg to client: hi client
client's response: this is cyber security course lab
send msg to client: the lab is based on socket programming
server waiting for connection
^CTraceback (most recent call last):
  File "server1.py", line 19, in <module>
    cli,cli_addr = serversoc.accept()
```

then connect client to server using ip and port

A terminal window titled '..er-assn/assn1' with standard window controls. The prompt is [zsh@LINUX]-[/mnt/.../cyber-assn/assn1]. The user runs 'python3 client.py 127.0.0.1 8794'. The output shows the client sending messages to the server and receiving replies. After sending the third message, a Ctrl+C interrupt occurs, leading to a traceback error in client.py at line 17.

```
[zsh@LINUX]-[/mnt/.../cyber-assn/assn1]
>>> python3 client.py 127.0.0.1 8794
enter msg to server: hi server
server replied: hi client
enter msg to server: this is cyber security course lab
server replied: the lab is based on socket programming
enter msg to server: ^CTraceback (most recent call last):
  File "client.py", line 17, in <module>
    a = input("enter msg to server: ")
KeyboardInterrupt

[/mnt/.../cyber-assn/assn1]
>>> 
```

Note that the server and clients are interrupted using ctrl + c that's why this traceback error is coming at end

Observations for client connected to predefined server

here are some connections of client with website urls

```
[zsh@LINUX]-[/mnt/.../cyber-assn/assn1]
>>> python3 client1.py www.google.com 80
connected to www.google.com on ip 142.250.183.132

[zsh@LINUX]-[/mnt/.../cyber-assn/assn1]
>>> python3 client1.py sharma59.web.app 80
connected to sharma59.web.app on ip 199.36.158.100

[zsh@LINUX]-[/mnt/.../cyber-assn/assn1]
>>> python3 client1.py iitj.ac.in 80
connected to iitj.ac.in on ip 14.139.37.5

[zsh@LINUX]-[/mnt/.../cyber-assn/assn1]
>>> 
```

url's for the above images

server

client

client1