Question 02:

Server code:

```python
import socket

s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(("localhost", 9000))

s.listen(5)
print("Waiting for connection")
while True:
    c, addr = s.accept()
    print(f"Got connection from addr: {addr}")
    print(c.recv(1024).decode())
    text = input()
    c.send(text.encode())
    c.close()
```

Output:

Connected to ('127.0.0.1', 9000)

hello from client

hello from server

Connected to ('127.0.0.1', 9000)
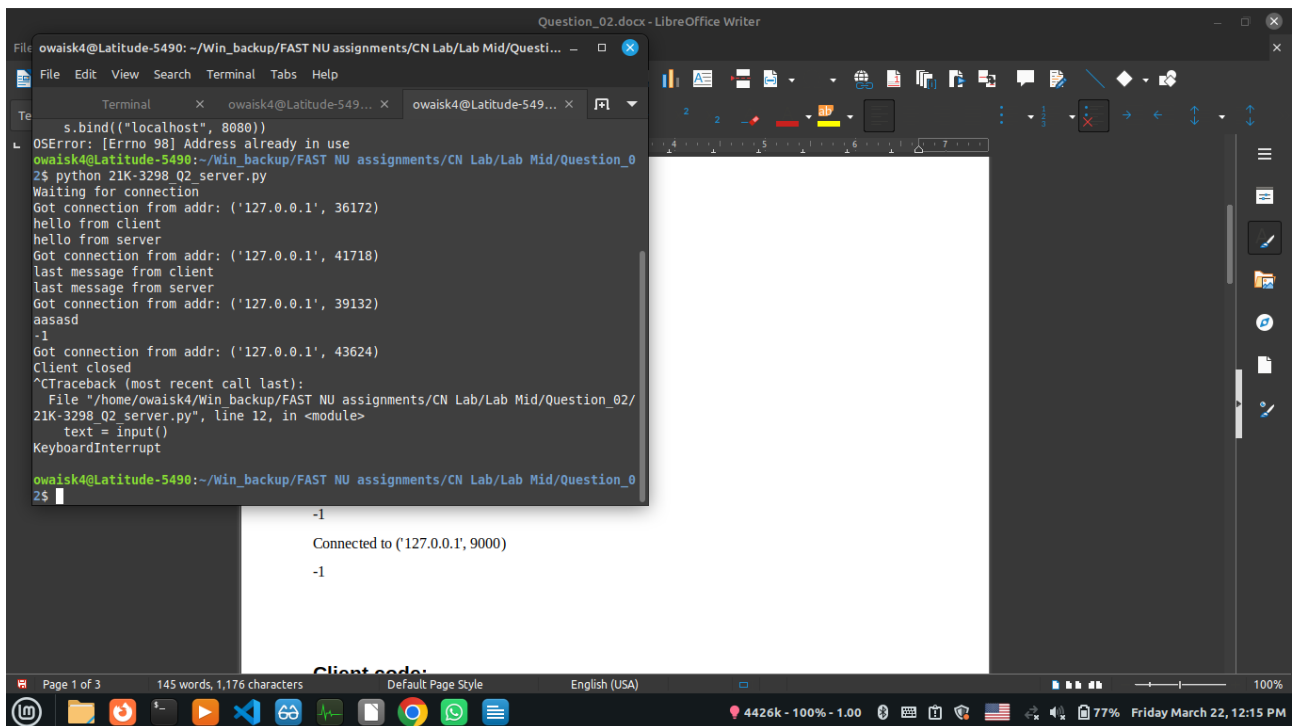
last message from client

last message from server

Connected to ('127.0.0.1', 9000)

aasasd

-1

Connected to ('127.0.0.1', 9000)

-1

-1

Connected to ('127.0.0.1', 9000)

-1

Client code:

```python
import socket

while True:
    s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    s.connect(("localhost", 9000))
    print(f"Connected to {s.getpeername()}")
    sent_text = input()
    if sent_text == "-1":
        s.send("Client closed".encode())
        s.close()
        break
    s.send(sent_text.encode())
    recv_text = s.recv(2048).decode()
    print(recv_text)
    s.close()
```

Output:

Waiting for connection

Got connection from addr: ('127.0.0.1', 36172)

hello from client

hello from server

Got connection from addr: ('127.0.0.1', 41718)

last message from client
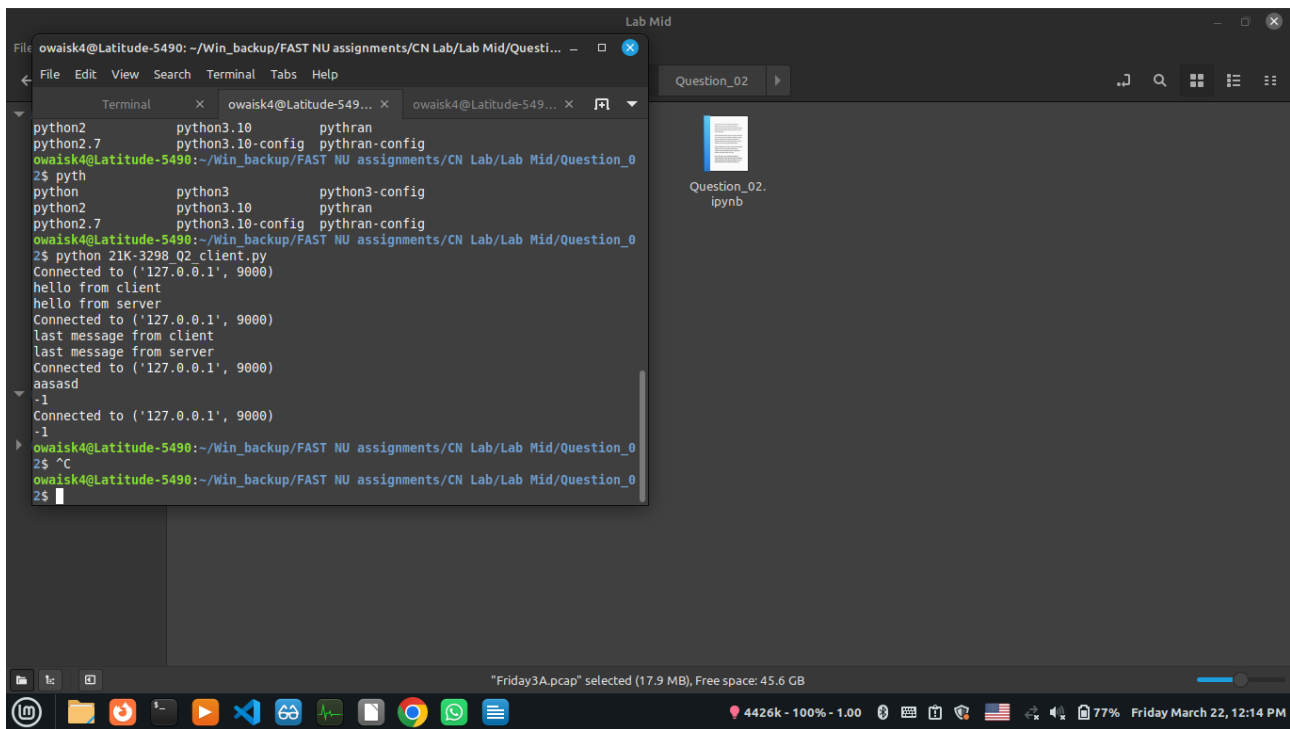
last message from server

Got connection from addr: ('127.0.0.1', 39132)

aasasd

-1

Got connection from addr: ('127.0.0.1', 43624)

Client closed