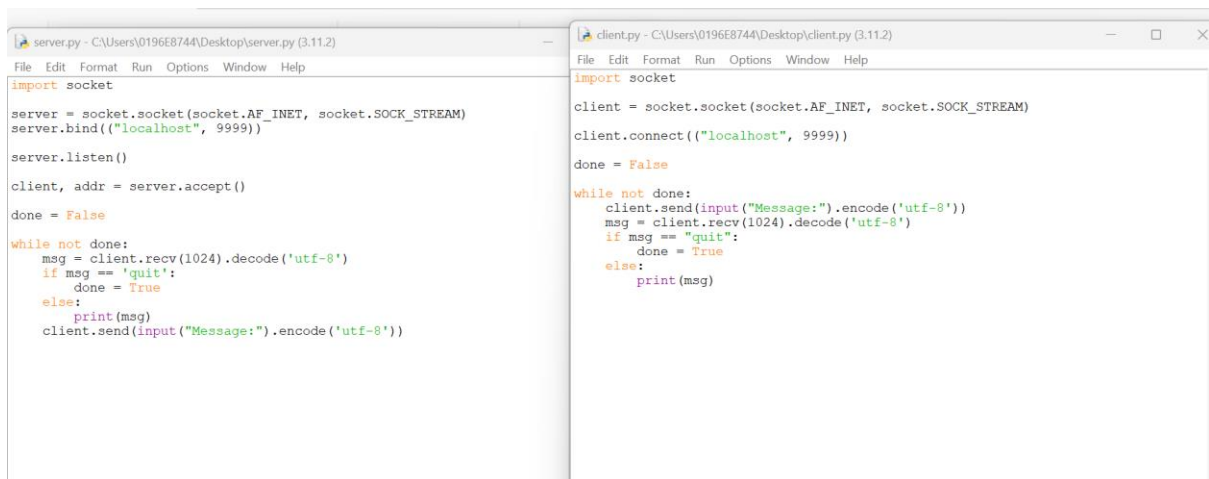


Created TCP chat in Python using client-server architecture and executed in windows power shell.



The image shows two Notepad++ windows side-by-side. The left window is titled 'server.py - C:\Users\0196E8744\Desktop\server.py (3.11.2)' and contains the following Python code:

```
import socket

server = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
server.bind(("localhost", 9999))

server.listen()

client, addr = server.accept()

done = False

while not done:
    msg = client.recv(1024).decode('utf-8')
    if msg == 'quit':
        done = True
    else:
        print(msg)
        client.send(input("Message:").encode('utf-8'))
```

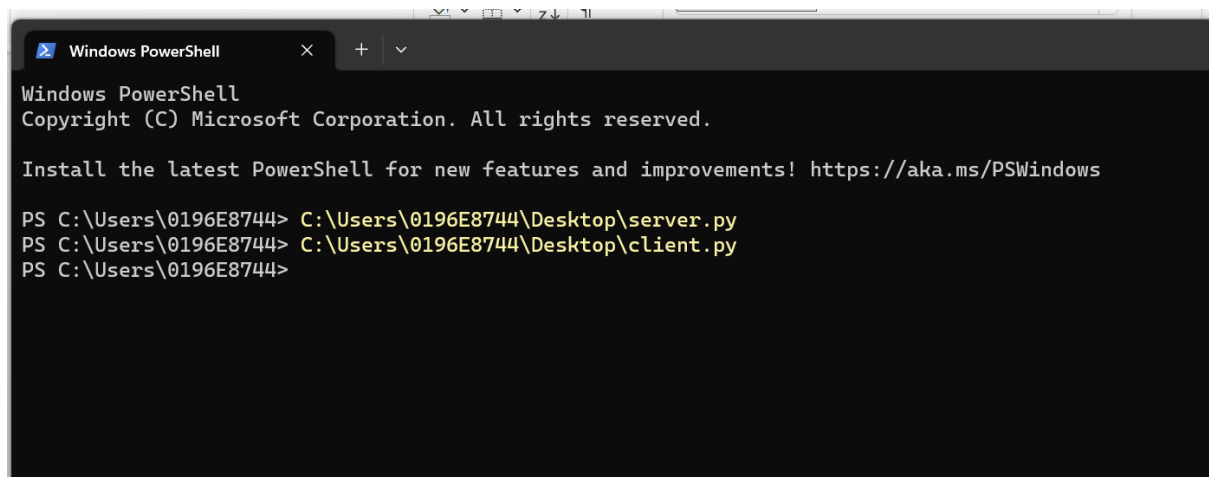
The right window is titled 'client.py - C:\Users\0196E8744\Desktop\client.py (3.11.2)' and contains the following Python code:

```
import socket

client = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
client.connect(("localhost", 9999))

done = False

while not done:
    client.send(input("Message:").encode('utf-8'))
    msg = client.recv(1024).decode('utf-8')
    if msg == "quit":
        done = True
    else:
        print(msg)
```

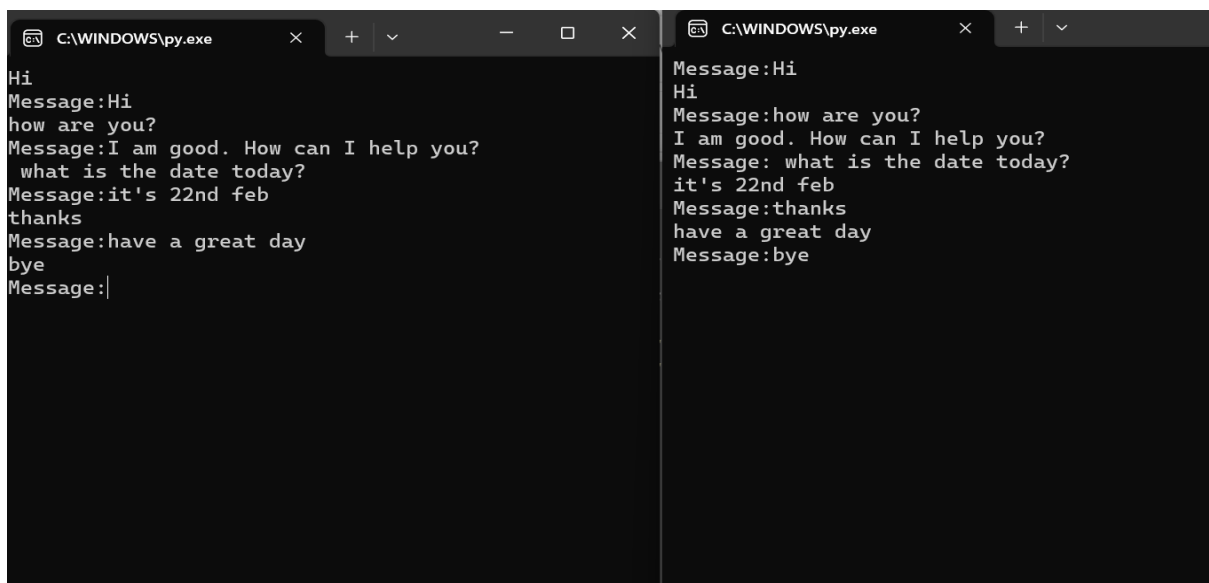


The image shows a Windows PowerShell terminal window. The title bar says 'Windows PowerShell'. The text inside the window is as follows:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\0196E8744> C:\Users\0196E8744\Desktop\server.py
PS C:\Users\0196E8744> C:\Users\0196E8744\Desktop\client.py
PS C:\Users\0196E8744>
```



The image shows two Notepad++ windows side-by-side, both titled 'C:\WINDOWS\py.exe'. The left window shows the server's output, and the right window shows the client's output. The chat conversation is as follows:

```
Hi
Message:Hi
how are you?
Message:I am good. How can I help you?
what is the date today?
Message:it's 22nd feb
thanks
Message:have a great day
bye
Message:|
```

The right window shows the client's output, which includes the messages sent to the server and the messages received from the server:

```
Message:Hi
Hi
Message:how are you?
I am good. How can I help you?
Message: what is the date today?
it's 22nd feb
Message:thanks
have a great day
Message:bye
```

