CEL 51, DCCN, Monsoon 2020
Lab 8: RIPv2 Router Configuration

Aim

Creating a client and server in Python using Socket Programming

Code

Server (in file server.py)

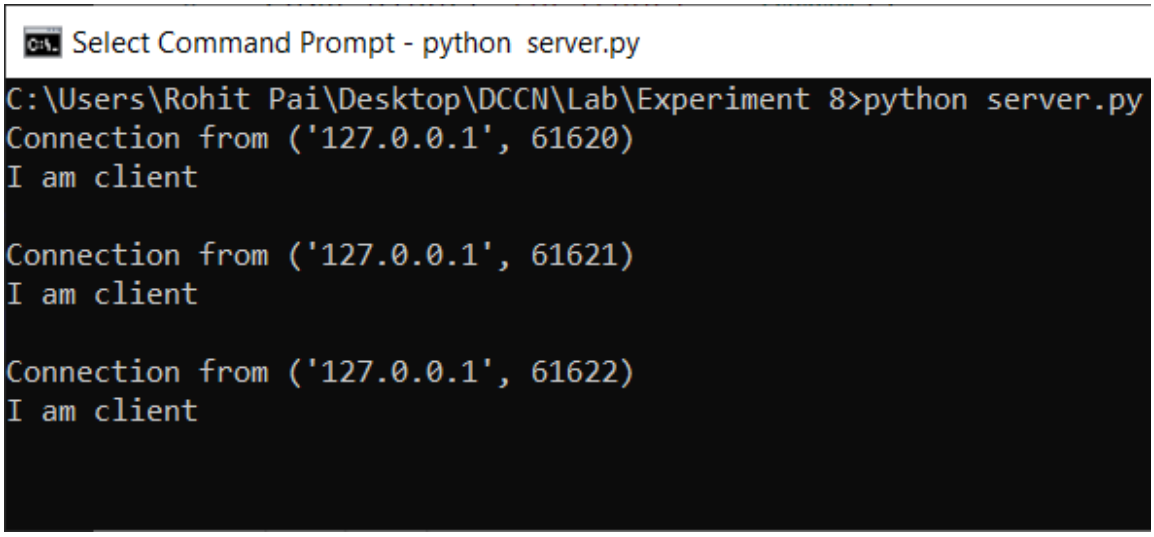
```
import socket
serv = socket.socket(socket.AF_INET, socket.SOCK_STREAM)

serv.bind(("localhost", 10000))
serv.listen(5)

while True:
    conn, addr = serv.accept()
    print(f"Connection from {addr}")
    from_client = ''.encode('utf-8')

    while True:
        data = conn.recv(4096)
        if not data:
            break
        from_client += data
        print(from_client.decode('utf-8'))

        message = "I am server"
        conn.send(message.encode('utf-8'))
```

Client (in file client.py)

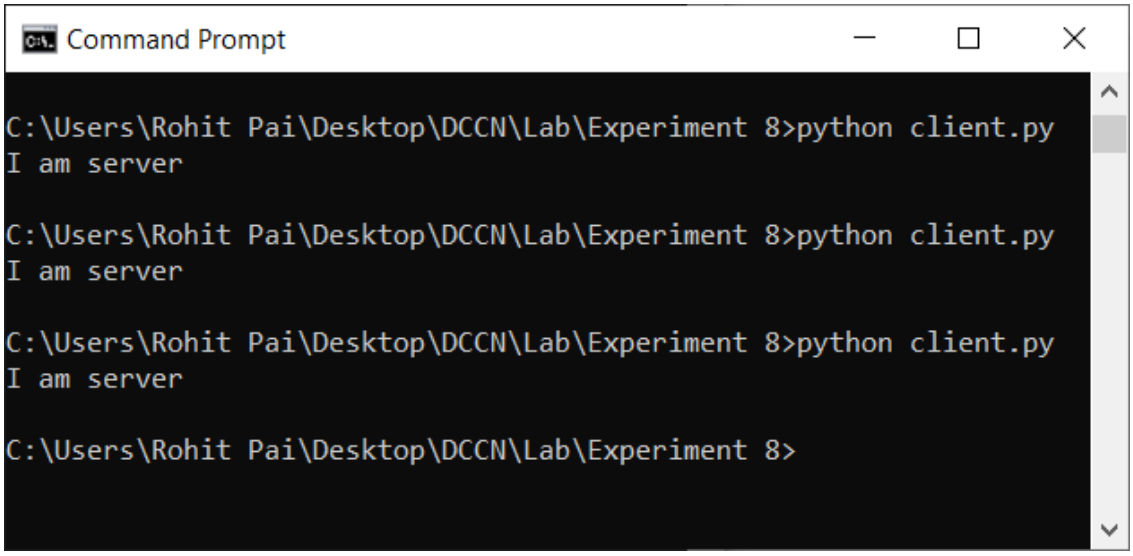
```
import socket

client = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
client.connect(("localhost", 10000))

message = "I am client\n"
client.send(message.encode('utf-8'))

from_server = client.recv(4096)

client.close()

print(from_server.decode('utf-8'))
```

Output

Server



Client



Conclusion

I learnt how to create a simple client and server in Python using socket programming.