♣ Tcp-server.py

```
import socket
if __name__ == '__main__':
    host = '127.0.0.1'
    port = 8081
    totalclient = int(input('Enter number of clients: '))
    sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    sock.bind((host, port))
    sock.listen(totalclient)
    connections = []
    print('Initiating clients')
    for i in range(totalclient):
        conn = sock.accept()
        connections.append(conn)
        print('Connected with client', i+1)
    fileno = 0
    idx = 0
    for conn in connections:
        idx += 1
        data = conn[0].recv(1024).decode()
        if not data:
            continue
        filename = 'output'+str(fileno)+'.txt'
        fileno = fileno+1
        fo = open(filename, "w")
        while data:
            if not data:
                break
            else:
                fo.write(data)
                data = conn[0].recv(1024).decode()
        print()
        print('Receiving file from client', idx)
        print('Received successfully! New filename is:', filename)
        fo.close()
    for conn in connections:
        conn[0].close()
```

♣ Tcp-client.py

```
import socket
# Creating Client Socket
if __name__ == '__main__':
    host = '127.0.0.1'
    port = 8081
    sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
# Connecting with Server
    sock.connect((host, port))
    while True:
        filename = input('Input filename you want to send: ')
        # Reading file and sending data to server
            fi = open(filename, "r")
            data = fi.read()
            if not data:
                break
            while data:
                sock.send(str(data).encode())
                data = fi.read()
            # File is closed after data is sent
            fi.close()
        except IOError:
            print('You entered an invalid filename! Please enter a valid name')
```

Shared File:

```
File Edit View

the quick brown fox jumps over the lazy dog the slow pink elephant slides under the idiot giraffe the happy yellow frog runs past the sad mosquito
```

4 Output:

```
Microsoft Windows [Version 10.0.22631.4249]
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E:\Aissms\T.Y\Network Laboratory\Exp 7>python tcp-server.py
Enter number of clients: 2
Initiating clients
Connected with client 1
```

E:\Aissms\T.Y\Network Laboratory\Exp 7>python tcp-client.py Input filename you want to send: lonewolf.txt Input filename you want to send:

SUSHANT