

Using TCP/IP sockets, write client server program to make client sending filename and server to send back contents of requested file & present.

client.py

```
from socket import *

servername = '127.0.0.1'
serverport = 12000

clientsocket = socket(AF_INET, SOCK_STREAM)
clientsocket.connect((servername, serverport))
sentence = input('Enter filename: ')
clientsocket.send(sentence.encode())
filecontents = clientsocket.recv(1024).decode()
print(filecontents)
clientsocket.close()
```

Server.py

```
from socket import *

servername = '127.0.0.1'
serverport = 12000

serversocket = socket(AF_INET, SOCK_STREAM)
serversocket.bind((servername, serverport))
serversocket.listen(1)

while(1):
    print("Server is ready to receive")
```

```
connectionSocket, addr = serverSocket.accept()
sentence = connectionSocket.recv(1024).decode()
file = open(sentence, 'r')
data = file.read(1024)
connectionSocket.send(data.encode())
print('\n sent contents of ' + sentence)
file.close()
connectionSocket.close()
```

Output :

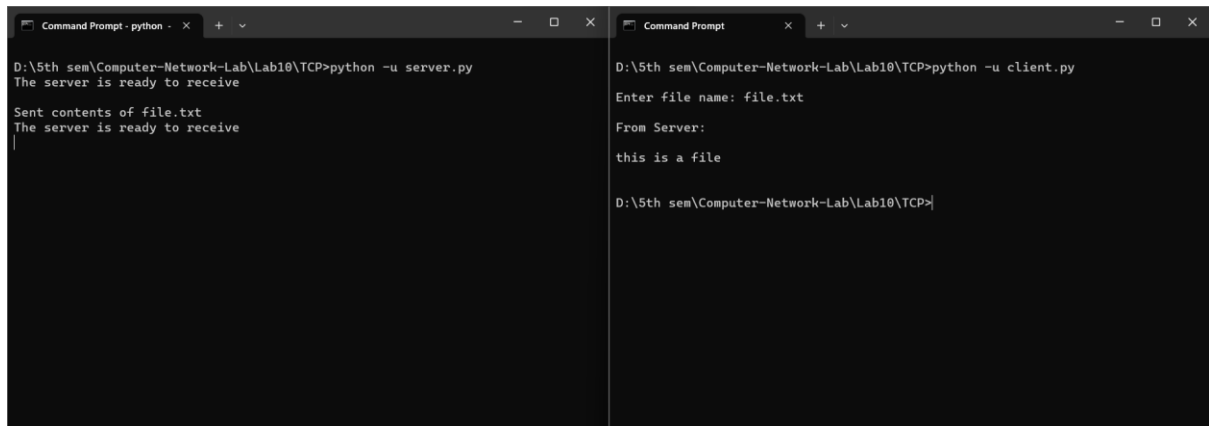
Enter filename : Server TCP.py

From Server :

Connection socket, addr = serverSocket.accept

These are the contents of file.

FINAL OUTPUT



```
Command Prompt - python - x + v
D:\5th sem\Computer-Network-Lab\Lab10\TCP>python -u server.py
The server is ready to receive
Sent contents of file.txt
The server is ready to receive
|

Command Prompt x + v
D:\5th sem\Computer-Network-Lab\Lab10\TCP>python -u client.py
Enter file name: file.txt
From Server:
this is a file
D:\5th sem\Computer-Network-Lab\Lab10\TCP>
```