11. TCP/IP

Client.py

```
from socket import *
serverName = '127.0.0.1'
serverPort = 12000
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName, serverPort))
Sentence = input("\n Enter file name: ")
clientSocket.send(sent.encode())
fileContents = clientSocket.recv(1024).decode()
print("\n From Server:\n")
print(fileContents)
clientSocket.close()
```

ServerTCP.py

```
from socket import *
serverName = '127.0.0.1'
serverPort = 12000
serverSocket = socket(AF_INET, SOCKET_STREAM)
serverSocket.bind((serverName, serverPort))
serverSocket.listen(1)
while 1:
    print("The server is ready to
          recieve")
    connectionSocket, addr = serverSocket.accept()
    sentence = connectionSocket.recv(1024).decode()
    file = open(sentence, "r")
    l = file.read(1024)
```

```
connectionSocket.send(l.encode())
print('\n sent contents of ' + sentence)
file.close()
connectionSocket.close()
```

Output:-

```
The server is ready to recap
contents of server TCP.py
The server is ready to recieve

Enter filename:- serverTCP.py
from server:
from socket import *

connection socket.send(l.encode())
ConnectionSocket.close()
```