Lab 10

Using TCP/IP sockets, write client server program to make client sending filename and server to send back contents of requested file if 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('\n 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 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:

```
Enter filename : Server TCP.py
From Server:
  connection socket, addr = serversocket.accept
These are the contents of file.
```

FINAL OUTPUT