

## TCP/IP File transfer

### 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 True:
    print("The Server is ready to receive")
    connectionSocket, addr = serverSocket.accept()
    sentence = connectionSocket.recv(1024).decode()

    try:
        file = open(sentence, "r")
        file_contents = file.read(1024)
        connectionSocket.send(file_contents.encode())
        print("\nSent contents of " + sentence)
        file.close()
    except FileNotFoundError:
        error_message = "File not found"
        connectionSocket.send(error_message.encode())

    connectionSocket.close()
```

### Client.py

```
from socket import *
serverName='127.0.0.1'
serverPort=12000
clientSocket=socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName,serverPort))
sentence=input("\nEnter file name: ")
clientSocket.send(sentence.encode())
filecontents=clientSocket.recv(1024).decode()
print('\nFrom Server:\n')
print(filecontents)
clientSocket.close()
```

### Output

```
PS C:\Users\shrav\Searches\sercli> python Server.py
The Server is ready to receive
```

```
Sent contents of res.txt
The Server is ready to receive
█
```

```
PS C:\Users\shrav\Searches\sercli> python Client.py
```

```
Enter file name: res.txt
```

```
From Server:
```

```
Hi Hello How are you
```

```
PS C:\Users\shrav\Searches\sercli> █
```