

Socket Programming assignment 1

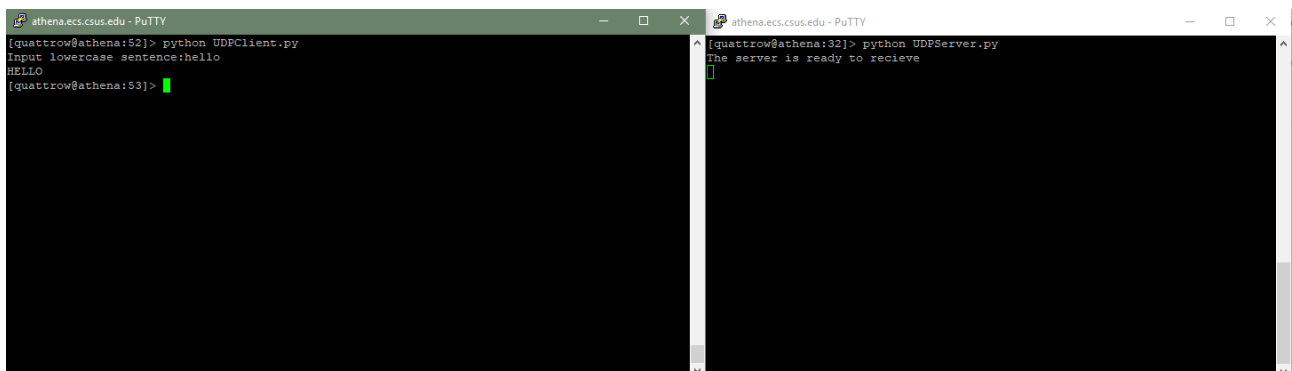
UDP

UDPClient.py

```
#Warren Quattrocchi
#CSC 138
from socket import *
serverName = '127.0.0.1'
serverPort = 12001
clientSocket = socket(AF_INET, SOCK_DGRAM)
message = raw_input('Input lowercase sentence:')
clientSocket.sendto(message,(serverName,serverPort))
modifiedMessage, serverAddress = clientSocket.recvfrom(2048)
print modifiedMessage
clientSocket.close()
```

UDPServer.py

```
#Warren Quattrocchi
#CSC 138
from socket import *
serverPort = 12001
serverSocket = socket(AF_INET, SOCK_DGRAM)
serverSocket.bind(("", serverPort))
print 'The server is ready to recieve'
while 1:
    message, clientAddress = serverSocket.recvfrom(2048)
    modifiedMessage = message.upper()
    serverSocket.sendto(modifiedMessage, clientAddress)
```



```
athena.ecs.csus.edu - PuTTY
[quattrow@athena:52]~$ python UDPClient.py
Input lowercase sentence:hello
HELLO
[quattrow@athena:53]~$

athena.ecs.csus.edu - PuTTY
[quattrow@athena:32]~$ python UDPServer.py
The server is ready to recieve
```

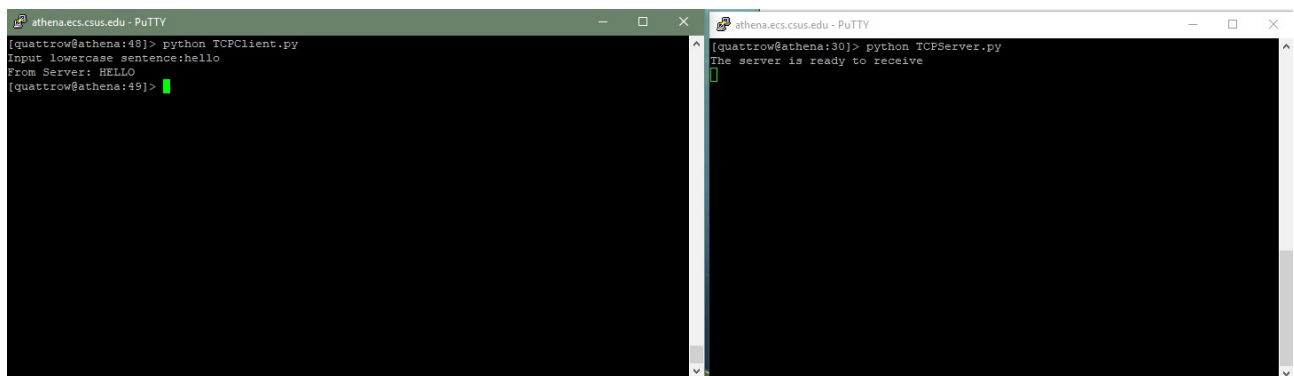
TCP

TCPClient.py

```
#Warren Quattrocchi
#CSC 138
from socket import *
serverName = '127.0.0.1'
serverPort = 6813
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((serverName, serverPort))
sentence = raw_input('Input lowercase sentence:')
clientSocket.send(sentence)
modifiedSentence = clientSocket.recv(1024)
print 'From Server:', modifiedSentence
clientSocket.close()
```

TCPServer.py

```
#Warren Quattrocchi
#CSC 138
from socket import *
serverPort = 6813
serverSocket = socket(AF_INET, SOCK_STREAM)
serverSocket.bind(("",serverPort))
serverSocket.listen(1)
print 'The server is ready to receive'
while 1:
    connectionSocket, addr = serverSocket.accept()
    sentence = connectionSocket.recv(1024)
    capitalizedSentence = sentence.upper()
    connectionSocket.send(capitalizedSentence)
    connectionSocket.close()
```



```
athena.ecs.csus.edu - PuTTY
[quattrow@athena:48]> python TCPClient.py
Input lowercase sentence:hello
From Server: HELLO
[quattrow@athena:49]>

athena.ecs.csus.edu - PuTTY
[quattrow@athena:30]> python TCPServer.py
The server is ready to receive
```