Anusree Manoj K
IBM18CS017

TCP

Server

```
import socket.
serverName = '127.0.0.1'
serverPort = 12345
server_socket = socket.socket(socket.AF_INET,
                              socket.SOCK_STREAM)
server_socket.bind((serverName, serverPort))
server_socket.listen(5)
while True:
    print("server waiting")
    client_socket, addr = server_socket.accept().
    print("client:", addr)
    sentence = client_socket.recv(1024).decode()
    file = open(sentence, "r")
    l = file.read(1024)
    client_socket.send(l.encode())
    file.close()
    client_socket.close()
```

client

```
import socket
client_socket = socket.socket(socket.AF_INET,
                              socket.SOCK_STREAM)
client_socket.connect(('127.0.0.1', 12345))
sentence = input("enter file name:")
client_socket.send(sentence.encode())
filec = client_socket.recv(1024).decode()
print('From server:', filec)
client_socket.close()
```


Anusree

Anurag Manojk
113M18CS017

UDP

server

```
import socket
UDPServerSocket = socket.socket(socket.AF_INET,
                                socket.SOCK_DGRAM)

UDPServerSocket.bind(('127.0.0.1', 12345))
print("UDP server up & listening")
while True:
    sentence, addr = UDPServerSocket.recvfrom(2048)
    file = open(sentence, "r")
    l = file.read(2048)
    UDPServerSocket.sendto(l, 'utf-8'), addr)
    print("sent to client:", l)
file.close()
```

client:

```
import socket
UDPClientSocket = socket.socket(socket.AF_INET,
                                socket.SOCK_DGRAM)

sentence = input("Enter file name:")
UDPClientSocket.sendto(bytes(sentence, 'utf-8'),
                       ('127.0.0.1', 12345))
filec, addr = UDPClientSocket.recvfrom(2048)
print("filecontents:", filec)
UDPClientSocket.close()
```


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