Jai Jain
1BM18CS040
CN lab 10

Century plus

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TCP / IP

Client side

```
from socket import *
serverName = '127.0.0.1'
serverPort = 25109
clientSocket = Socket (AF_INET, SOCK_STREAM)
clientSocket. connect ((serverName, serverPort)
sentence = input ('Enter the file name')
clientSocket. send (sentence .encode ())
filecontents = clientSocket. recv (1024).decode ()
print ('content sent by server:', filecontent)
clientSocket. close ()
```

Server side

```
from socket import *
serverName = '127.0.0.0.1'
serverPort = 25109
serverSocket = Socket (AF_INET, SOCK_STREAM)
serverSocket. bind (serverName, serverPort)
serverSocket. listen (1)
print ('Server is ready to recieve :TCP..")
while 1:
    connection Socket, addr = serverSocket. accept ()
    print ('Client has been connected from:', addr)
    sentence = connectionSocket. recv (1024). decode
    file = open (sentence, 'r')
    l = file. read (1024)
    connection Socket. send (l.encode ())
    file. close ()
    connection Socket. close ().
```

UDP

Client Side

```
from Socket import *
serverName = '127.0.01'
serverPort = 6518
clientSocket = Socket(AF-INET, Sock.DCIRAM)
sentence = input('Enter file name')
clientSocket.sendto(bytes(sentence, "utf-8"),
        (ServerName, serverPort))
file contents, Server Address = Client Server.recv from (2048)
print('file contents from Server:', file contents)
clientSocket.close()
```

Server Side

```
from socket import *
serverPort = 65198
serverSocket = socket(AF_INET, SOCK.DCIRAM)
Server Socket.bind("127.0.0.1", server Port)
print('Sentence Server is ready to recieve : UDP")
while 1:
Sentence, Client Address = Server Socket.recv from (2048)
file = open(Sentence, 'r')
l = file.read(2048)
server Socket sendto(bytes(l, 'utf-8'), client Add)
print("Sent back to client")
file.close()
```