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LAB - 11
Socket Programming using TCP :-

1) Server.py

```
from socket import *

server name = 'my-pc'
server-port = 12001
server socket = socket (AF-INET, SOCK-STREAM)
server-socket blind = ( server name, server port)
server socket. listen (1)
print ('The server is ready to receive')


while 1:
        connection socket, addr = server socket, accept()
        sentence = connection socket. recv(1024).
                                                decode()
        file = open ( sentence, 'r')
        l = file. read (1024)
        connection socket. send( l. encode())
        file. close()
        connection socket .close ()
```

2) Client.py
```
from socket import *.
server Name = 'my-pc'
Server port = 12001
client socket = socket (AF-INET, sock-stream)
client socket = connect (( server Name, server Port))
sentence = input ( "enter file Name") ?
```

```python
client socket . send ( sentence. encode ())
file contents = clientSocket ~ usve (1024) . decode()
print (" From Server: , file contents)
client Socket . close ()
```

II   Socket Programming using UDP:

i)   Userver .py.

```python
from socket import *

server port = 12000
server socket = socket ( AF-INET, SOCK- DGRAM)
server Socket . bind (( " 127. 0. 0.1 ", serverPort))
print ("The server is ready to receive: ")
while 1 :
        sentence , client Address =  server Socket. recvfrom(2048)
        file read (2048)
        server Socket . sendto (bytes( L, "Utf-8"),
                                        client Address)
        print (" sent back to client ', 1)

file. close ()
```

2)   Userver. py

```python
from socket    import *

server Name = ` 127.0 .0.1'
server Port = 12000
```

```
clientSocket = socket (AF-INET, SOCK.DGRAM)
sentence = input ('enter file name')
clientSocket . send to (bytes( sentence, "utf-8"),
                    (server name , serverPort))'
file contents , server Address = clientSocket . recv from
                            (2048)
print (`from Server:', file contents)
clientSocket . close ().
```