

DATE: 18-10-24

AIM:

Implement echo client server using TCP/UDP sockets.

SOURCE CODE:

TCP Echo Server

import socket

def echo\_server():

with socket.socket(socket.AF\_INET, socket.

as server:

SOCK\_STREAM)

server.bind("localhost", 12345)

server.listen(1)

print("TCP server Listening ...")

conn, addr = server.accept()

with conn:

printff("Connected by {addr}")

while data := conn.recv(1024):

conn.sendall(data)

echo = server()

TCP Echo Client

import socket

def echo\_client():

with socket.socket(socket.AF\_INET,

socket.SOCK\_STREAM) as client:

```
client.connect ("localhost", 12345)
client.sendall (b"Hello, TCP server")
print("Received ", client.recv(1024))
echo = client()
```

### OUTPUT:

Server.py

Terminal

> Python Server.py

>>

UDP server running on 127.0.0.1: 12345

client.py

Terminal

> Python client.py

>>

Message sent to server

server terminal:

Received message from ('127.0.0.1', 56003): Hello

### RESULT:

Thus the program of echo client & server using UDP socket has been implemented & executed successfully.