ExpNo12a Echo client server using TCP/UDA Date: 28/9/25 Sockets.

Aim:

To implement echo client server using TCP/UPP sockets.

Algorithm:

a) client

import socket

def ping-server (nost = 127.0.0.1, port = 12345):

with socket. socket (socket. AF-INET, 80 cket. sock-DGRAM) as s.

c. settimeout (2)

message = input ("Enter message to send: "/encode()

s. send to (message, (hast, port))

try:

data. addr=s. recvfrom(1024)

Print ("Echo from server:", data.devod

except socket. timeaut:

Print ("Request timed out")

it\_name\_=="-main\_":

ping-server()

b) server import socket

def start\_server ( host= 127. 0.0.1, Post = 12345)

with socket socket (socket. AF-INET, sock. SOCK - DGRAM) as S:

s. bind((host, port))

Print ("UDP server running on 1 host3: (port3")

While TRUE:

data-addr = s. recv ( som (1024)

prints "recieved message from 4 addr3: of data. decode ()3")

s. sendto (data, addr)

if\_name - = "- main\_":

start - server

Input lowput

client:

Entermessage to send: Hello

Echo brom server: Hello

server:

UDP server running on 127.0.0.1:12345 Received message from (127.0.0.1, 54321)

12 . server.py UDP Server running on 127.0.0.1:12345 Received message from ('127.0.0.1', 63852): Hello (245) client.py Enter message to send: Hello Echo from server: Hello print upp server running en shorts Result: The program has been executed successfully.