

01.10.25 Practical - 12 - TCP/UDP packets

Aim: (a) Implement echo client server using  
TCP/UDP Socket

Code:

TCP Server:

import socket

HOST = ('127.0.0.1')

PORT = 5432

s = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

s.bind((HOST, PORT))

s.listen()

print('TCP server listening on', HOST, 'port:', PORT)

conn, addr = s.accept()

with conn:

print:

print('connected by', addr)

while True:

data = conn.recv(1024)

if not data:

break

print('Received data:', data.decode())

conn.sendall(data)

TCP client

import socket

Host = '127.0.0.1'

port = 432

with socket.socket(socket.AF\_INET,  
socket.SOCK\_STREAM)

s.connect((Host, port))

while True:

message = input("you: ")

if message.lower() == 'quit':

break

s.sendall(message.encode())

data = s.recv(1024)

print('Echo: (data.decode())')

Output: client types spring

server output: client: Ping

client output: you: Ping server: Ack: Ping

Result:

Implementation of echo client server using  
TCP/UDP sockets was completed successfully



09.10.15

Practical 12 - Chat client server.

Ans b) Implement chat client server using TCP, UDP sockets.

Code:

UDP Server

import socket

Host = '127.0.0.1'

port = 65433

with socket.socket(socket.AF\_INET, socket.SOCK\_DGRAM) as s:

s.bind((Host, port))

print('UDP server listening on {} port: {}'.format(Host, port))

while True:

data, addr = s.recvfrom(1024)

print('Received from {} : {}'.format(addr, data))

s.send(data)

UDP client:

import socket

Host = '127.0.0.1'

port = 65433

with socket.socket (socket.AF\_INET,  
socket.SOCK\_STREAM):

while True:

message = input ("you: ")

if message.lower() == 'exit':

break

s.sendto (message, encode) (host, port)

data\_size = s.recvfrom (1024)

print ("echo: {data.decode(), y}")

Input:

run python TCH-server.py

server output:

TCP server listening on 127.0.0.1:65432

client output

Connected to server 127.0.0.1:65432.

type 'exit' to quit

Result:

Implementator of chat client & server using  
TCP/UDP sockets was executed successfully.