

Date: 6/10/25

Practical - 12 (a)

Aim:

Implement echo client server using TCP/UDP sockets.

Code:

```
import socket
import time

def ping_server (host = '127.0.0.1', port = 12345):
    with socket (socket.AF_INET, socket.SOCK_DGRAM) as s:
        try:
            s.sendto(b'Hello', (host, port))
        except s.timeout:
            print ("Request timed out")
    ping_server()
```


6/10/25

Practical - 12 (b)

Aim:

Implement chat client server using TDP/UDP sockets

CODE:

```
import socket
```

```
def start_server (host = '127.0.0.1', port = 12345):
```

```
    with socket.socket (socket.AF_INET, socket.SOCK_
```

```
        (socket.SOCK_DGRAM) as s:
```

```
        s.bind ((host, port))
```

```
        print (f"UDP server running on {host}:{port}")
```

```
        while True:
```

```
            data, addr = s.recvfrom (1024)
```

```
            print (f"Received message from {addr}: {data.decode()}")
```

```
start_server():
```

OUTPUT:

UDP server running on 127.0.0.1:12345

Result: Hence echo and client server was executed successfully.

✓
13/10/25