

Exp 2.6 Implementation of chat client server using
TCP / UDP Sockets

Aim:-

To implement chat client server using
the TCP and UDP sockets.

Server side Algorithm:-

```
import socket  
server = socket.socket(socket.AF_INET,  
                      socket.SOCK_STREAM)
```

```
server.bind(("localhost", 12345))  
server.listen()
```

```
print("Server is waiting for connection")  
conn, addr = server.accept()  
print(f"Connected to {addr}")
```

while True:

```
msg = conn.recv(1024).decode()
```

If msg.lower() == "bye":

```
    print("Client disconnected")
```

break

```
print(f"Client : {msg}")
```

```
reply = input("You")
```

~~conn.send(reply.encode())~~

If reply.lower() == "bye":

break

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```
client : How a
you : I'm bin
client : bye
client : disc
client : & ide
you : Oh. B
server : Hello
you : How
server : J
you : hi

click close()
click socket (socet. AF - INET)
input socket. SOCK - STREAM
addr : socket. SOCK - STREAM
client.connect ('localhost', 12346)

while True:
    message = input ("you : ")
    client.send (message.encode ())
    if message.lower () == "bye":
        break
    reply = client.recv (1024). decode ()
    print (f"Server: {reply}")
    if reply.lower () == "bye":
        break
click close()

Sample Input and Output
server side :-
```

Server waiting for connection.
Connected to ('127.0.0.1', 59010)
client: Hi Server!
you : Hello client!

Result
Simple
using
Socat

1. AF - Stream
STREAM)
; 12346))

encode ()
= bye.

4). decode()
").
bye!

59010)

client : How are you?
you : I'm fine, thanks!
client : bye
client : disconnected.
client : & ide:
you : Oh Server!
server : Hello client!
you : How are you?
server : I'm fine? Thanks?
you : bye! Well I'll attend 2
the last message) now

Result :-

Implementation of Chat client server
using TCP/IP sockets have been completed
successfully. *Amritpal*