

Exp 12b) Echo client Server

Aim: Implement chat client Server using TCP socket.

```
chat_server.py
import socket
def server1():
    port = 12345
    host = '127.0.0.1'
    with socket.socket(socket.AF_INET,
                       socket.SOCK_DGRAM) as s:
        s.bind((host, port))
    while True:
        cl_addr = s.recvfrom(1024)
        print("client, %s" % cl_addr[0])
        a = input("Enter Reply")
        s.sendto(a.encode(), cl_addr)
        if a == "end":
            break
    exit()
server1()
```

Receiver.py

```
import socket
import time
def server2():
    host = '127.0.0.1'
    port = 12345
    with socket.socket(socket.AF_INET, socket.
                       SOCK_DGRAM) as s:
```



```
s = sendto (a.encode(), (host, port))  
cl_addr = s.recvfrom(1024)  
print (s.recv(1024))  
while (True):  
    a = input('Enter message')  
    if (a == "exit"):  
        recv2(a)  
        break  
    else:  
        recv2(a)
```

Output:-

```
python lchat_ser.py  
Client >'hi'  
Enter Reply Hello  
Client >"How are you?"  
Enter reply I'm fine
```

```
python lrecv.py  
Enter message hi  
>'hello'  
Enter message How are you  
>'I'm fine'
```

Result: The program is successfully executed.

