```
AIM
(a) Implement eacho dient server-using Top
 UDP Sockets.
dient: import socket.
      import time.
     def ping server (host= 1127.0.01),
                         port = 10345);
     with socket. socket [socket AF-INET]
         Socket. Sock - DGRAM) as 8
     s. dendto ( p. Hello, I post bout))
     except s. timeout:
    point ( Request timed out ");
   1/2 -- name = " main ":
        bind - somer ()
  Gerver
     def start-berver(host=127.0.0.1
       import sacket
                        port = 12345
       with socket socket. AF-INET, socket)
     8. bind [ thost port))
print [ tu uDP server running on
         short gilling his bolings
```

PRACTICAL-12

16/00/24

while True: data, addr = 9. recyform (1024) point (f" Recieved mensage from 3 add g' p data decode () y"). 14 rame = "main\_ ": Start · Server () UP python server py DP server running on 127.0.0.1.12575 Received message from (127.0.0.1,59290): Python client · py · bod : Hello, client. Recieved reply from server : Hello, client. (b) Implement chat client server using TCP/UDP Bar 6 642 : chat serv. Py ! def server () port = 12345 most = 1127.0.0.1 with socket socket socket. AF\_INET; socket. s. bind ((host, port)) d; add = 8 recyfrom (024);

```
point (" client ", Ed. decode () B)
   a = input (" Ender Reply ").
    s. send to (a. excode (), add)
      If (a = = " end ").
         break
        exit
     recver (1), puller raying
  recur 2. Py
 1. import sock of.
      import times and plan property
      def secv.(a):
          host = 127.0.0.1"
           port = 12345.
     with socked socket (socket. AF-INET,
           Bocket sock - DGRAM) as 8:
       s. send to (a. encode (), (host, port))
d, addr = s. reerfrom ( 2024).
point [ } d. decode (1 9).
    while (True);
     · a = input ("Enter Mexage")
       if ( \a = = " end" ):
```

recur 2 (a) break. e/se: recviz(a) ... trumplin OIP. . python. / chod - serv. py dient & hily Enter Reply hello: 19 " client & " How are you ! ?" Enter Reply Im time . The python. recvr. Py Enter Movage hi & hello 19 mol boil 1 boil 2 Enter Message How are you Si Imfine 19 (Pinn) Enter Message. interior of the state of The program is successfully executed and the output is verified.