a) Implement echo client server using TCPI UDP sockets.

elient:

import socket

inport time

def ping-server (host = 127.0.0.1', post = 12345);

with socket . socket (socket . AF - I NET ,

Socket. Soc - dgram) as s:

tuy:

S. Sendto (6" hello", (host, port))

except & timeout:

print (Request timed out ")

of_name - = = " main":

bing . server ().

```
Averan
 import saket
 del start. Server ( host · 127.0.0 1', part = 12346)
with Socket Socket ( Socket AF_INET, Socket.
 Lock Dynam)
    cus s:
    s bind ( host, port))
     print (f"UDP Source running on 1 host 3)
 while True:
   data. addr = 5. recuform (1024).
   punt ( + " Recewied message from + addr 3:
                 { data. decode() 3")
4 -- name -- = "- main-":
   start- server ()
019: Python Server. py.
 VEP Survey surning on 127.0.0.1: 12345.
 Recewid message from (127. 0.0.11, 59290), fello.
 tython elient. py
Purived repty from sower: Hello, chent
To Implement chat client server using top/recp
sockets;
```

```
that serve py
                              Land Days
    sinport socket
     del Bent ():
       port = 12345
        host = 127.0.0.1
      with socket . Socket ( Socket . AF_INET, socket)
         Sock_Dyram) as 5:
       5. bind ((host, port))
       while (Dune):
         d1 add = 8. sucufrom (1024)
         print ("dient", { d. decode () 3)
         a = input ("Inter reply")
         S. Sendto ( a. encoded (), add)
        if (a = = "end")
          break
                     VI mont water -
           exit.
viecive 2. py:
    import socket
                         ing table feller
    import time
    def rucor2(a):
      host = 127.0.0.1
      port = 12345.
```

with socket socket (Socket AF INIT , Socket Sock & sendle (a . encode (), (heat, port)) 1. rdb . S. secu from (1024) pount (I.d. decode () }) while (tour); a = input ("enter message") if (a == "end"); sucuro (a) Loueak else: vecev ? (a) today today ther 8 ython . wecur . py OIP: tython . I chart seew. py enter message hi client 1 hi'3 {'hello'} enter supply hello. Enter messages how are dient { 'how are you'} you of 'Imfine' } enter reply: Imfine Enter message. Ladders I data deader fuult : Thus the program is executed successfully & the output is verified. 0/1/24