TCP/UDP SOCKETS

AIM"

1) Implement who dient sover using TIP/100p sociation

client:

Puport mohet Purpose Bime

det ping-soner [host = 127.0.0.1, post = 12345] with wellet weeket freshet AE-INET. socket. soc-degroun) as 8:

tay: S. vento (6' hello", (host, port)) except s.fineout went (" Request timed out")

1 f_ name_ == "main": ping *severt)

Server:

Twood socket def wast some (work, 127.0.0.11, port = 1214) with socket worket worket. AF-INET, Socket, sock_Dgrain) as s'

8. bind (host, port)) Afrit (f° UDP server running on { hort})

while true:

data, adde : s. reconform (1024) print (f" Received message from Eaddig" Edata. decode () 3")

```
if -- name = = " _ main_"
       Start. solver()
 OUTPUT: python sewer by
    UDP sower sunning on 127.0.0-1:12345
    Received message from (127.0.0-11, 59290). hello.
    Python client-py
    Received repty from sener: Hello, liett.
b) Implement chat client server using tep/vDP
sockets .
 chat sew. py
import socket
  def Sent ():
      port = 12345
      host = '127.0.0.1'
      with socket socket (socket AF-INET, socket)
        Sock Doram) as SI
        S. bind ((host, port))
       while (True):
          diadd = coreenfrom (1024)
         print ("client", &d. devode ()3)
          a = input ("Enter roply");
         s. sendto (a. encoded (). adol)
         if (a == "end")
            Toreale
            enit.
```

receive . py import socket Import some def revore (a): host = 427.0.0.1' post = 12345 . with socket socket (socket AF-INET, socket socket socket DGRAH) as SS s. send to (a. Rouode 1), (host, port)) d. addr = s. reci from (1024). oprint (Ed. decodet) 3) while (true): a simput l'entre mersage") if lass "end"): def Sent (): reunz (a) break neurs (a) DUTPUT : pythion. I chart serv. py Py thon. I reur, py client & hi'3 Enter mersage Wi Enter reply hello client & how are you's ?'hello'} Enter messages how are Enter reply: Finfine you & I'm fine y Enter mersage RESULT: Thus, the peogram is executed successfully