EX: 13 Date: 25/10/24

Ping Program

Aim:
To implement your own ping program

Algorithm:

UDP SOWED

- -> create UPP socket & bind it to a specific oddrell & post
- -> wait for mellage
- -> Print mellage & clients address
- -> send back Pong to client

VOP client

- -> Create UPP socket & set a 2 sec timeout
- > if a refferse C"Pong is receved-Print relience & calculate RTT
- > if no response within 2 sec Print request time out
- -> Sent "Ping" to server

Cade

Serven by impost socket

def Start - Server (host = "127.0.0.1", Port = 12345):
- with Socket. Socker (Socket. HF_INET, Socket. Sock - Dk om) at S:
S. bund (C holt, Port)
Print (+"VOP server sunning on E holt3: & Port3")

while True:

data, addn = s. Incieved (1024)

Print (f"Received mellage from Eaddis:

Edata-decode (3")

5. Send to (6' Pong', adds)

if _ hame _ = = " _ main _ _ ":

Start_Server()

Client. Py Import the Import secket

def Ping_Server Chost = 127.0.0.1', Port = 12345
with socket Csocket. AF_INET, socket. Sock Dream as:
tay;

S. Settime (2)

Start = time.time()

S. Send to Cb' Ping' [host; Post))

data, adds = S. recv from (1024)

end = time.time()

Print Et" Pereved & data decode ()3 from Endows;

E end - Start 1:;2 & Second')

Oxcept so cket. timeout:

Print C"Request timed ont")

it_name_="-_moin_".

Ping_Server()

copel. He last a har select the the

Output: torminal \ Terminat > Pathon client. 14 > python server. py Recieved long trom (127.0.0% UDP Estenier Server running 12345) in 0.00 seconds on 127.0.0.1:12 345 10 10000 01 Recovered mellage from (127.0.0.1', 500 sl: Ping and a making william fiction to make -> there gives "115. Pa cool to do the + they is the sit distance the Property all the sal had been to sale;

That a ping Porogram had been executed Succellbully