EXP No : 13

To implement your own ping program

Algoritam:

-) create UDP socket so bind it to a UDP SELVES: specific address sp post

-> wait for mossage

-> Print Message & client address

-> send back ping to alreal-

UDP client:

-> create UDP socket & set a 2 sec timeout.

-> send ping to server

-> of a susponse ( pong see reved -point Response so calculate RIT

-) if no sosponse within 2 sec print Request time out

Code:

SERVER PY:

import socket

def start server ( host = 127.0.0.1', port = 12345 with socket socket socket AF\_INET, socket sock DGRAM) as s: S. b. & d (1808+, polt)) Print 18" UDP server sunning enflost) र posty")

while Tru data, print 1

s.geno of \_\_name\_\_ = "\_\_ mi stalt\_sorver()

apent. py: import socket impost time der ping-server ( with socket

> tey: s. sett stasts. seno data end = Print fadda y except 80

of \_\_name\_\_ == " ping- 800 ve

unio of han

while True:

data, adds = 8. secv from (1024)

print 18 "received message from

fadds y (data. decodel) y")

s.gendto (b'pong', adds)

eg\_\_name\_\_= "\_\_main\_\_":
start\_ xxver()

cleent. py:

import rocket

def ping\_server (2008t='127.0.0.1', port=12345): with socket socket (socket AF\_INET,

Socket. sock\_DGRAM) as s:

tey:

s. settimeout (2)

start = time. time!)

s. send to 16 'Ping', (Rost, post))

data, adda = 8. 20cv grom (1024)

end = time. time()

Print (f"Received fdata.decode()y from faddsy in fend-start: 2/3 seconds")

except socket. timeout:

successfully executed and the outer

Print ("Request timed out")

26 -- name -- == " main - ":

ping- 200 ver()

in hai

d et lo a

address

nl-

et a 2 sec

recieved -paint

2 sec print

o.1', post = 12345); et. AF\_INET, IRAM) as s:

mina en shost 3:

output: > python &xxvex py UDP SEVER Running on 127.0.0.1:12345 Received message Bem (127.0.0.1), 500bl:

Terminal > python client py received peng from (1127.0.0.1, 12345) 0.00 seconds

100000 1200 i

= To write to Emplement Source code: from scapy. all from scapy lays def packet\_call Eg IP in po Pp\_ layer proto cof 22C-1P dst-ip # Deter protoc

of 6

phin

PRIA

prin

Phu

EXP NO : 14

Result: Thus, the program for ping program so successfully executed and the output

" - nam \_" - - > smon - ?

TA Journal Johnes Johnes Him

(Mhinamailta) 2

12012 - 12012

(MARIOR 1102 428382

17 h traft 120,022") 1023