

EX. NO: 13

DATE: 7/11/24

## PING PROGRAM

AIM:

To implement your own ping program.

PROGRAM 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.bind((host, port))
        print(f"UDP server running on {host}:{port}")

    while True:
        data, addr = s.recvfrom(1024)
        print(f"UDP server received message from {addr} {data.decode()}")
        s.sendto(b'Ping', addr)

if __name__ == '__main__':
    start_server()
```

client.py

```
import socket
import time

def ping_server(host = '127.0.0.1', port = 12345):
    with socket.socket(socket.AF_INET, socket.SOCK_DGRAM) as s:
```

try:

s.settimeout(2)

start = time.time()

s.sendto(b'ping', (host, port))

except socket.timeout:

print("Request timed out")

```
if __name__ == '__main__':  
    ping_server()
```

OUTPUT :

python server.py

UDP server running on 127.0.0.1:19345

received message from ('127.0.0.1', 53660)

python client.py

Received ping from ('127.0.0.1', 19345) in 0.00 seconds

RESULT :

Thus the ping program is executed successfully and the o/p is verified.

9/11/20