Exp No: 13

Date: 22/10/24

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. recv from (1024).
        print (f" UDP server received message fro
        {addr} {data, decode U};
        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:
    c. settimeout (2)
    start = time. time ()
    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 : 12345.
received message from ('127. 0.0.1', 12345) in
0.00 seconds.

Result:

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