EXP NO: 13 Implement your own Ping Program

AIM:
To implement your own ping program

Program:

Client code:

```
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))
            data, addr = s.recvfrom(1024)
            end = time.time()
            print(f"Received {data.decode()}
            from {address} in {end-start:.6f}
            seconds")
        except socket.timeout:
            print("Request timed out")
if __name__ == "__main__":
    ping_server()
```

Server Code:

```
import socket
def start_server(host="127.0.0.1", port=
                                    12345):
    with socket.socket(socket.AF_INET, DGRAM
                                    as s:
```

```
s.bind((host, port))
print(f"UDP server running on {host}:{
{data.decode()}")
if __name__ == "__main__":
    start_server()
```

Input:

For server.py

Output:

UDP server running on 127.0.0.1 : 12345
Received message from ('127.0.0.1', 12345): Ping

Input:

For client.py

Output:

Requested time out.

Result:

Therefore, the implementation of ping program is executed.