Implementation of Ping Program

Aim:

To implement a ping program by self.

Client side Algorithm:

```
import socket
import time
def ping_server (host ='127.0.0.1', port = 12.345)
with socket.socket (socket : AF_YNET, socket.Sock_
                    DGRAM) as s :
    try :
        s. sendto ( b'Hello', (host, port)
    except s.timeout:
        print ("Request timed out")
ping server ()
```

Server side Algorithm:

```
import socket
def start_server (host ='127.0.0.1', port = 12345).
    with socket. Sock_DGRAM as s :
        s_build ((host, port))
        print (f" UDP server running on{host}
                                        : {port}")
        while true :
            data, addr = s. recifrom (1024)
```

```python
print(f"Received message from
{addr}: {data.decode()}")
start - server()
```

Sample inputs and Outputs:

Server side:

Command: python server.py

Output:

UDP server running on 127.0.0.1: 12345
received from ('127.0.0.1', 55437): ping

Client side:

Sample input - Enter host: 127.0.1.0

Sample output:- reply from 127.0.0.1:
ping
time = 1.42 ms

Result:

A ping program has been implemented
successfully