

Exno: 13

ping program

Date: 23/10/24

Aim:

To implement your own ping program.

Code:

```
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"Received message from {addr}:
```

```
              {data.decode()})  
        s.sendto('pong', 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:
```

Reqs send Timeout (2)

start = time.time()

send I to ('ping', (host, port))

except socket.timeout:

print("Request Timed out")

if __name__ == "__main__":

ping_server()

O/P

python server.py

UDP server running on 127.0.0.1:12345

Received message from ('127.0.0.1', 153009) ping

python client.py

Received pong from ('127.0.0.1', 12345) in

0.00 seconds

Result:

Thus The ping program is executed successfully and O/P is verified.