S. No.	Date	Title	Page No.	Teacher's Sign / Remarks
12.	22.11.2024	Echo Client Server using TCP/UDP		
13.	8.11.2024	Ping Program.		
14	6.11.2024	RAW Socket		
15.	8.11.2024	Web Analyzer.		

Completed

Exp No: 13 Ping Program.

Date :

Aim:

To implement your own ping 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"Received message from {addr}: {data.decode()}")
            s.sendto(b'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:

    try:
        s.settimeout(2)
        start = time.time()
        send to(b, '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', 05009):
ping
python server.py
Received pong from ('127.0.0.1', 12345) in
  0.00 seconds.
```

Result:

Thus the ping program is executed successfully and output is verified.