

Ex: 13

apsara

Date: 4/11/24

Practical-13

Date: _____

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.recvfrom(1024)  
            print(f"UDP server received message from {addr}: {data.decode()}")  
            s.send(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:  
            s.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', 53009):

python client.py

Received ping from ('127.0.0.1', 12345) in 0.00 seconds.

Result:-

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