

6/10/2025

Practical XIII

AIM: Implement your own ping program

```
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 {addr} in {end-start:.2f} seconds")
        except socket.timeout:
            print("Request timed out")

if __name__ == "__main__":
    ping_server()
```

```
import socket

def 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"Server listening on {host}: {port}")
        while True:
            data, addr = s.recvfrom(1024)
            print(f"Received message from {addr}: {data.decode()}")
```


P.sendto(b'Pong', addr)

if _name_ == "_main_":
server()

Output:

Server running on 127.0.0.1:12345

Received message from ('127.0.0.1', 53162): Ping

Received message from ('127.0.0.1', 53163): Ping

...

So on...

Result:

Hence, the ping program was executed successfully

✓
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