13 a - Ping program   29/9/25

```python
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:
        + ry :
            s. sethimeount (2)
            Start = time. tume 1)
            s. Sond to ( b 'Ping', (host, port))
            d_end = time. tume 1)
            Print (F" Recieved {data. decode()}
    from {addr} in {end - Start: 2f}
    Socands" )
        except socket timout:
            Print ( " Request timedout")
```

Experiment 13b

```
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
            s.sendto(b'pong', addr)

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

Result:

Thus a ping program has been successfully executed using python..