Ex: 12 a

Data: 18/10/24

# Echo Client Server - VDP socket

#### Aim:

To implement echo client serves uling toppoper sockets

## Algorithm:

### Server. Py:

-> Oreate a VOP socket

-> Bind the socket to specific IP addrell (1270.01) & Port (12348)

-> Continuouf litter has incoming mellage

-> when mellage recieved decode it

- deplay mellage along with sender addeds

-> Refeat inhinetely

### Chent . Py

-> Create VOP socket

-> set a timeout for socket to avoid waiting

-> send a Predefined mellal hellow to sever IP address & Port 12345

-> If no response recreved in timed laried, Point

-> close so the after sending mellage

```
Code;
Sorver . Pg
import socket
dep start_ Server Chost = 122.0.0.1, Part = 12345):
   with Socket. Socket (Socket. AF_INET, Socket-Sockessee
          5. bind (Chost, Post).
          Point (+ "VOP sower running on & hosts: & Posts)
          white true;
             data, add n = 5. neotrom (1024)
             Print (f"received modage from & addit i data.
                                            dade(3")
   1f - hame === 11 - main = 11:
         Start Server ()
Client . Py
del ping = server (host = 127-0.0.1, Port = 12345):
    with Socket. Socket (Socket. Af INET, Socket. Sock Profit
       S. timeout (5)
       Dry:
         s. send to (b' Hello', (host, Post))
        Print ["mellage sent to server")
      except socket . timed out 19
        Print ("fequest timed out")
1f __ hame__ == " _ - main _ -
    Ping-Serverco
```

ortput: server. Py Terminal > Python Server. Py UDP Server running on 127.0.0.1:12345 . Client . By + erminal Toython client by melage sent to server Server terminal: Recieved mellage from (127.0.0.1, 56003): Hello

Result:

Thus the Program of ocho cline server wing UDP Sockets has been implemented & executed successfully

The Flore Canal