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**EXPERIMENT:18** 

**AIM:** To implement of server-client using UDP socket programming.

### **ALGORITHM:**

#### Server Side:

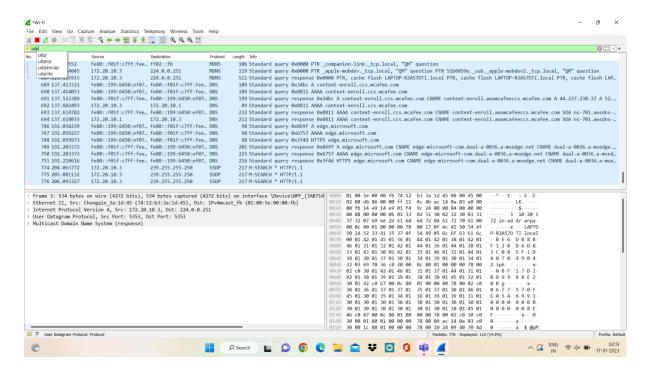
- 1. Create a socket: Create a UDP socket to listen for incoming client datagrams.
- 2. Bind the socket to an IP address and port number: Specify the IP address and port number for the server to listen on.
- 3. Receive datagrams from clients: Use the recvfrom() function to receive datagrams from clients.
- 4. Process the data: Process the received datagram as required by the application.
- 5. Send response to the client: Use the sendto() function to send a response back to the client, specifying the client's IP address and port number.
- 6. Repeat steps 3 to 5 as required to handle multiple clients.

# PROCEDURE:

#### Client Side:

- 1. Create a socket: Create a UDP socket to send datagrams to the server.
- 2. Send data to the server: Use the sendto() function to send datagrams to the server, specifying the server's IP address and port number.
- 3. Receive response from the server: Use the recvfrom() function to receive a response from the server.
- 4. Process the response: Process the received response as required by the application.
- 5. Close the socket: Use the close() function to close the socket.
- 6. Exit the program: Exit the program as required.

### **OUTPUT:**



# **RESULT:**

Therefore implementation of server—client using UDP socket programming.