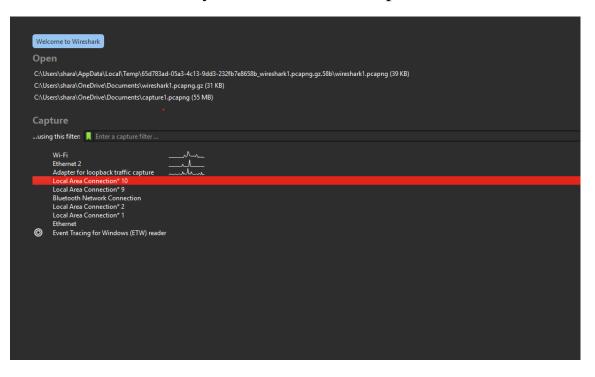
TASK 5: CAPTURING AND ANALYZING NETWORK TRAFFIC USING WIRESHARK

STEP 1: Install wireshark

•Go to official website of wireshark and download the latest version of wireshark

STEP 2: Start capturing the network using wireshark

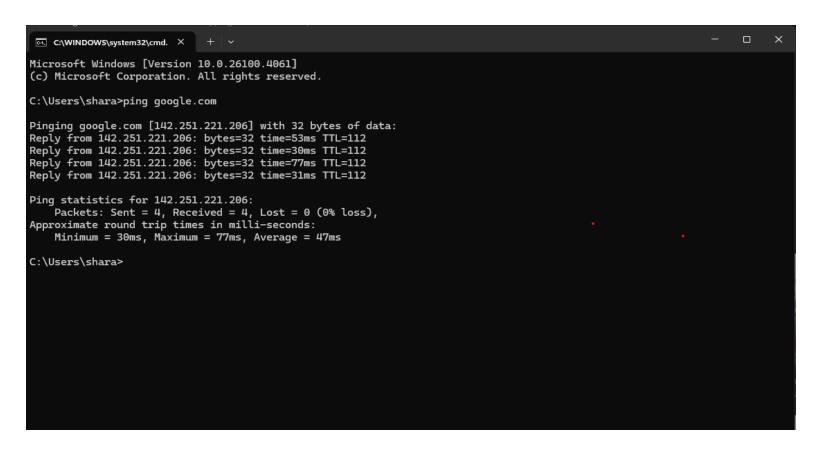
•Search wireshark in your search bar and open it



- select the network connected to your device(eg: ethernet, wifi......)
- Double-click on that interface to start capturing

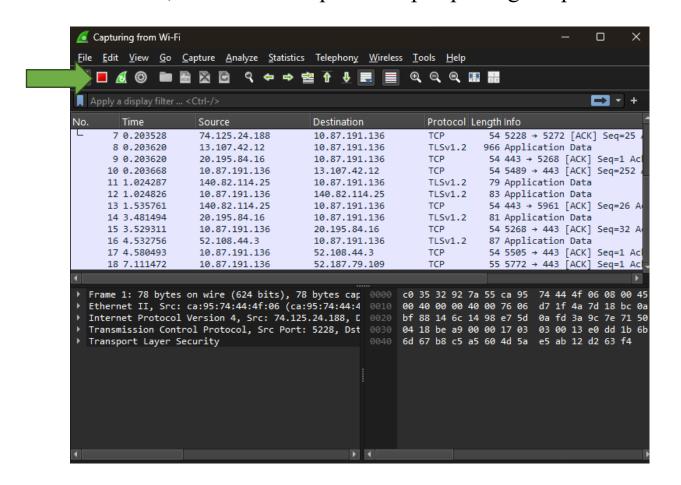
STEP 3: Browse a website or ping a Server to generate traffic

- While wireshark is capturing the network, open your web browser and start searching any wbsites
- Alternatively, open your command prompt and type ping (searched website)(eg: ping google.com)



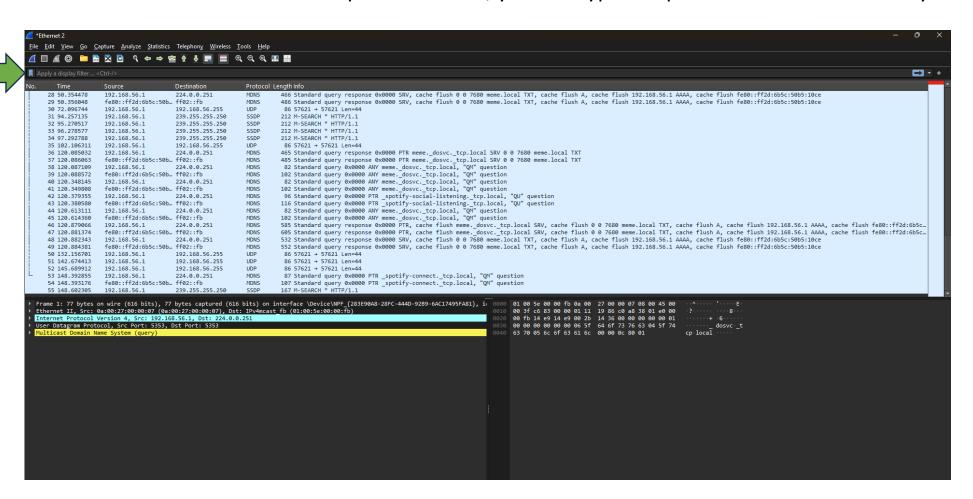
STEEP 4: Stop capturing after a min:

• In wireshark, click the red square "stop capturing the packets"

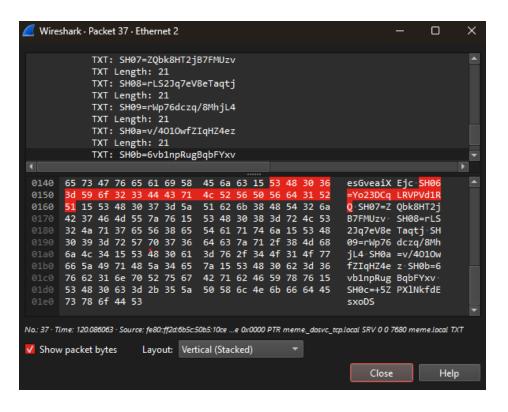


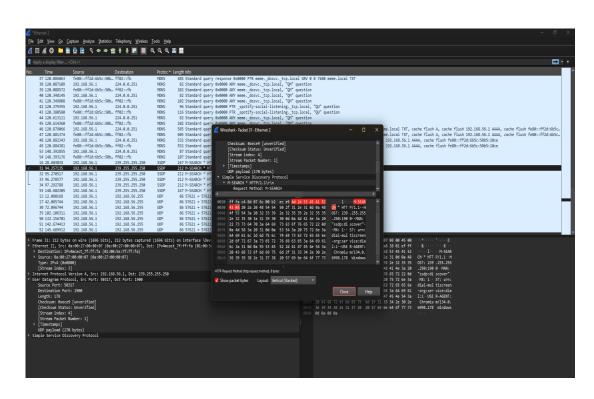
PART 2: analyze the captured packets.

• In the filter bar at the top of wireshark, you can type the protocols we want to analyze.



- Identify atleast 3 different Protocols in the capture
- Look at the protocols and study the usage of the selected protocols





From my reference, I can clearly say'

- MDNS(Multicast DNS): Used for name resolution within small local network
- SSDP(Simple Service Discovery Protocol):used for finding services on a local network
- UDP(User Datagram Protocol):It is a transport layer protocol, to transfer data with speed and low latency (And many more.....)

By searching the findings in depth we can understand clearly about the protocols, and their usage etc.