# Task 5: Capture and Analyze Network Traffic Using Wireshark.

### 1. Objective

To capture live network packets using Wireshark and identify different network protocols and traffic types.

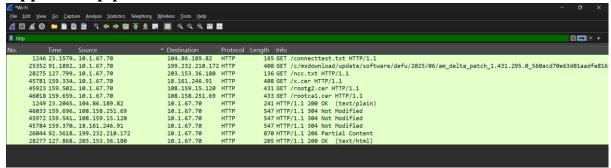
#### 2. Tools Used:

- Wireshark(for capturing network packets)
- Chrome browser(for generating https requests)

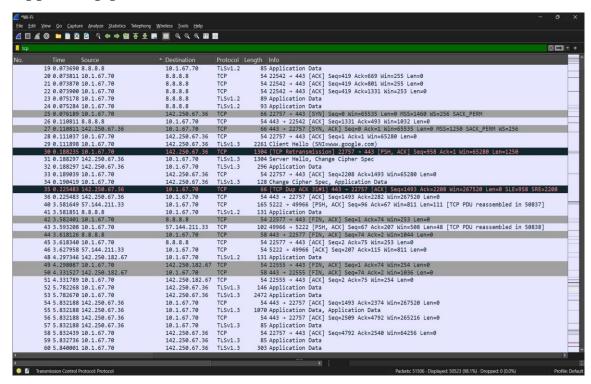
#### 3.Process:

- 1. Download wireshark
- 2. Select the active network interface(wifi, ethernet-2,)
- 3. Start capturing packets
- 4. Visit any websites for generating traffic.
- 5. Stop the capture after some period of time.
- 6. Wireshark has a filter option that helps users focus on specific types of packets, such as HTTP or DNS, for easier analysis. (Note: Filter keywords must be written in lowercase letters (e.g., use http, not HTTP)).
- 7. Apply filters such as http, dns, tcp.
- 8. Export the packets and save them using .pcap extension.

## Applied http protocol:



## Applied tcp protocol:



# Applied dns filter:

