Task 5: Capture and Analyze Network Traffic Using Wireshark.

Objective: Capture live network packets and identify basic protocols and traffic types.

Steps Performed

1. Wireshark Installation:

Wireshark was downloaded from https://www.wireshark.org/ and installed on the system.

2. Interface Selection:

o The active network interface (e.g., Wi-Fi) was selected for live packet capture.

3. Traffic Generation:

- o During the capture, several actions were taken to generate diverse traffic:
 - Visited a few websites via a browser.
 - Used the ping command to reach google.com.
 - Checked basic DNS resolution using nslookup.

4. Capture Duration:

 Traffic was captured for approximately 1 minute and then stopped to ensure a manageable number of packets.

5. Protocol Filtering:

- Wireshark's filter bar was used to isolate specific protocol types:
 - http for web traffic
 - dns for domain name lookups
 - tcp for general transmission control traffic

6. **Exporting Capture:**

 The entire packet capture was exported as a .pcap file for further review and submission.





