Wireshark Network Traffic Capture – Task Report

# Objective:

Capture live network packets and identify basic protocols using Wireshark.

# Steps Followed:

1. Installed Wireshark with Npcap.

2. Started capture on active interface (Wi-Fi).

3. Visited website (https://www.google.com) and pinged google.com.

4. Captured traffic for 1 minute.

5. Applied filters: http, dns, tcp.

6. Identified 3 protocols: HTTP, DNS, TCP.

7. Exported capture as .pcap file.

8. Summarized findings with packet details.

# Protocols Identified:

|  |  |  |  |
| --- | --- | --- | --- |
| Protocol | Port Used | Use Case | Example |
| HTTP | 80 | Web Communication | GET / HTTP |
| DNS | 53 | Domain Resolution | Query www.google.com |
| TCP | 443 | Transport Protocol | TCP Handshake |