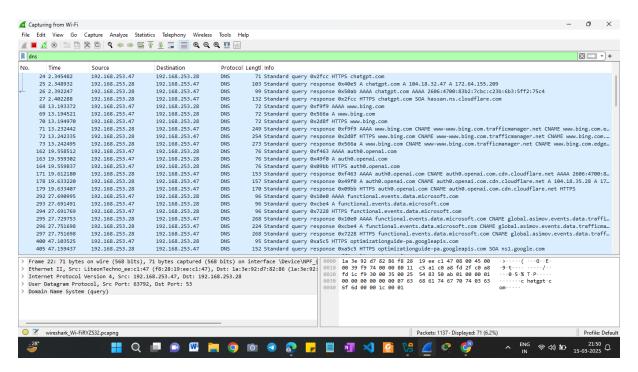
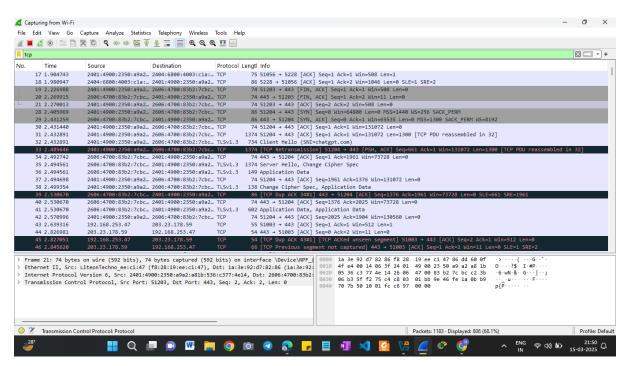
Q2. Use Wireshark to capture and analyze DNS, TCP, UDP traffic and packet header, packet flow, options and flags

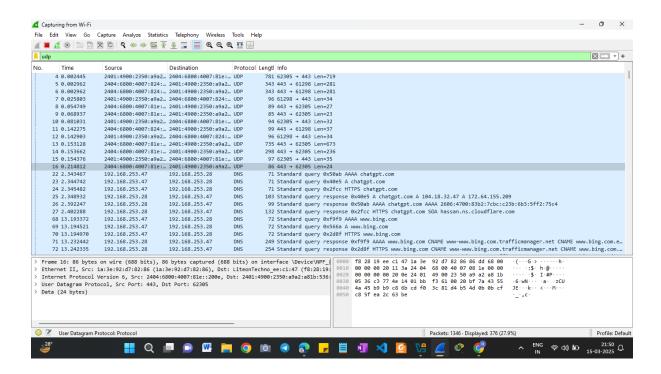
DNS:



TCP:



UDP:

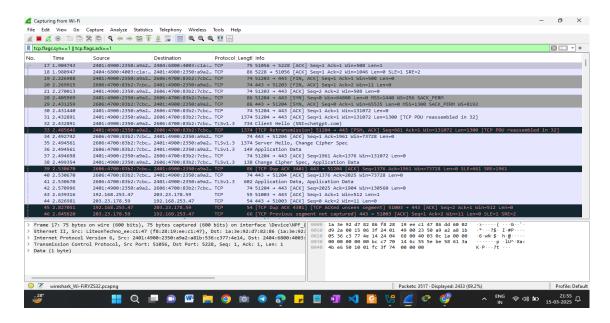


TCP Packet Analysis

- Three-Way Handshake:
 - > **SYN** (Client to Server)
 - > SYN-ACK (Server to Client)
 - > ACK (Client to Server)

Filter Used:

tcp.flags.syn==1 | | tcp.flags.ack==1



Flags and Options:

- **RST:** Connection reset.
- **FIN:** Connection termination.
- **PSH:** Data push without waiting for buffers.
- Window Size & Sequence Number: Found in the TCP header.

Analyzing Packet Flow:



