**Ex No: 4 b** **PACKET SNIFFING USING WIRESHARK**

**AIM:**

To capture, save, filter and analyze network traffic on TCP / UDP / IP / HTTP / ARP /DHCP /ICMP /DNS using Wireshark Tool

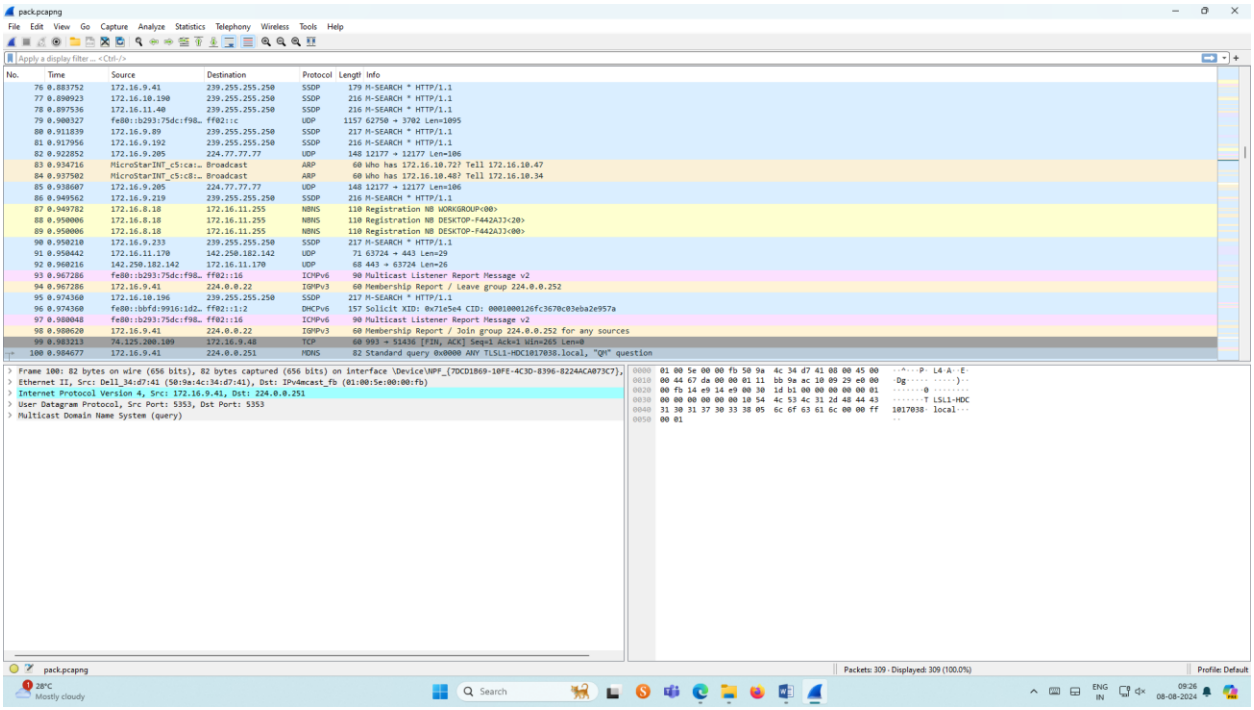
**Exercises**

**1. Capture 100 packets from the Ethernet: IEEE 802.3 LAN Interface and save it.**

**Procedure**

- Select Local Area Connection in Wireshark.
- Go to capture  option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Save the packets.

**Output**

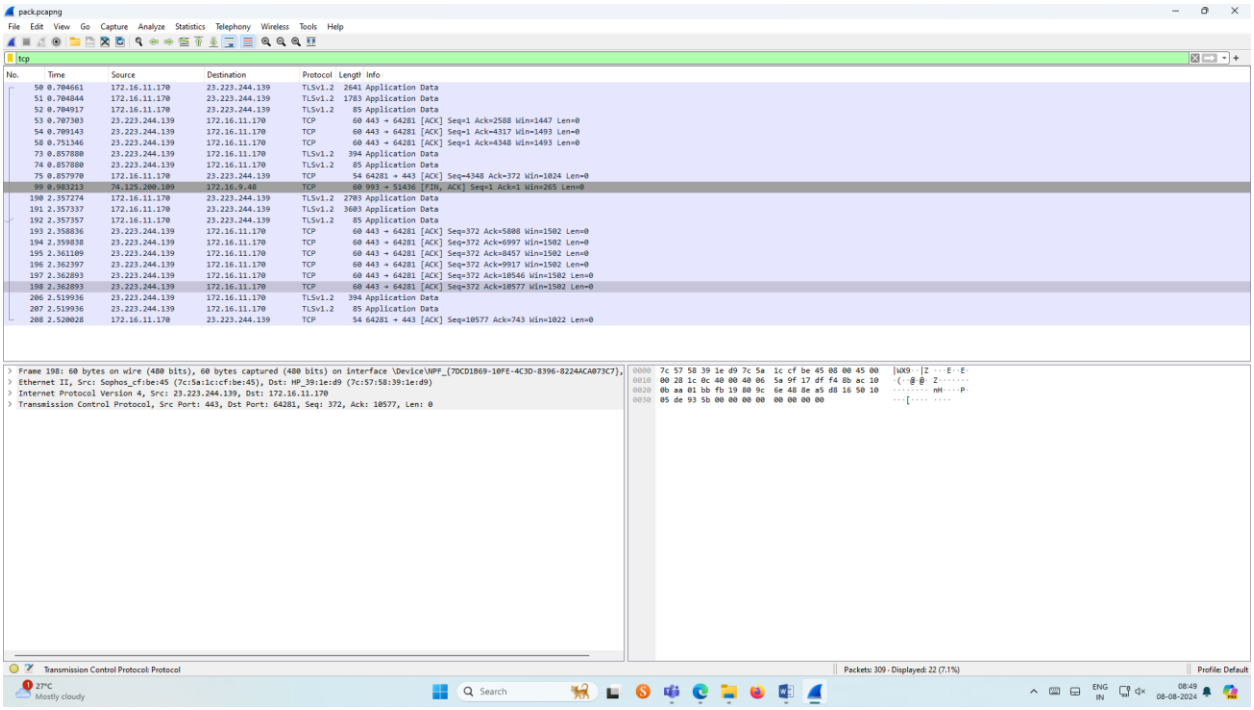



**2.Create a Filter to display only TCP/UDP packets, inspect the packets and provide the flow graph.**

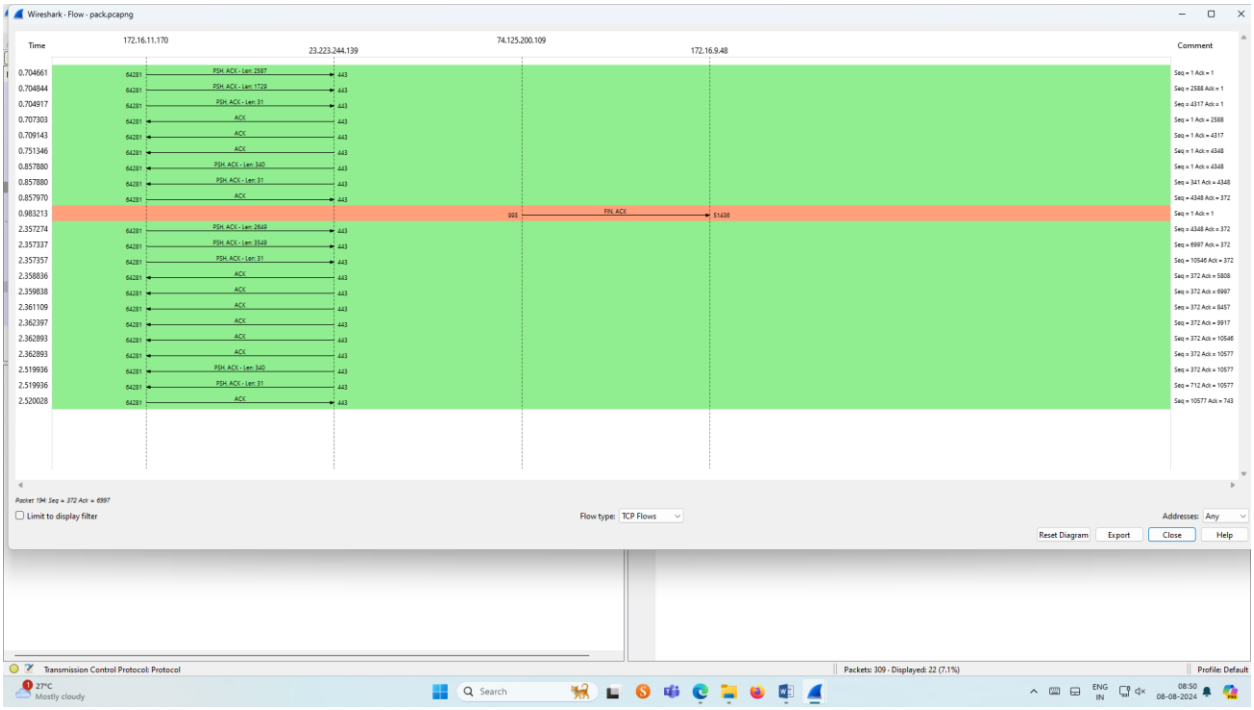
**Procedure**

- Select Local Area Connection in Wireshark.
- Go to capture  option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search TCP packets in search bar.
- To see flow graph click Statistics Flow graph.
- Save the packets.

**Output:**



**Flow Graph output**

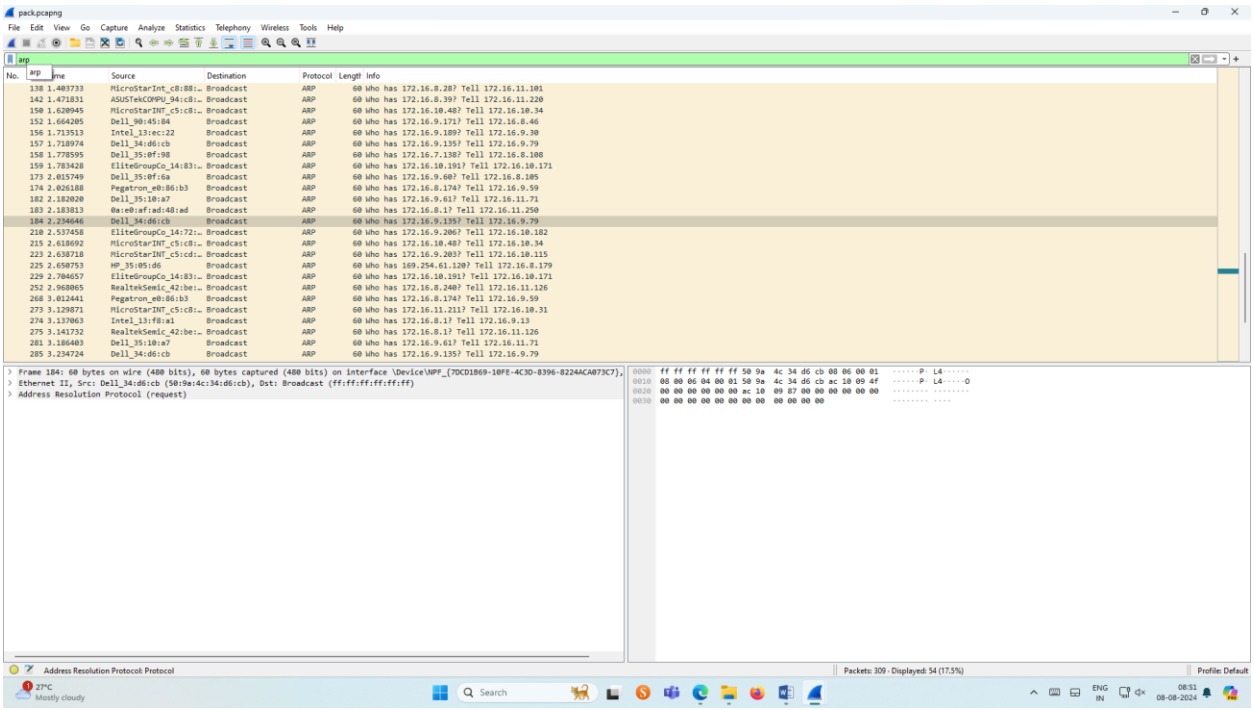



**3.Create a Filter to display only ARP packets and inspect the packets.**

**Procedure**

- Select Local Area Connection in Wireshark.
- Go to capture  option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search ARP packets in search bar.
- Save the packets.

**Output**

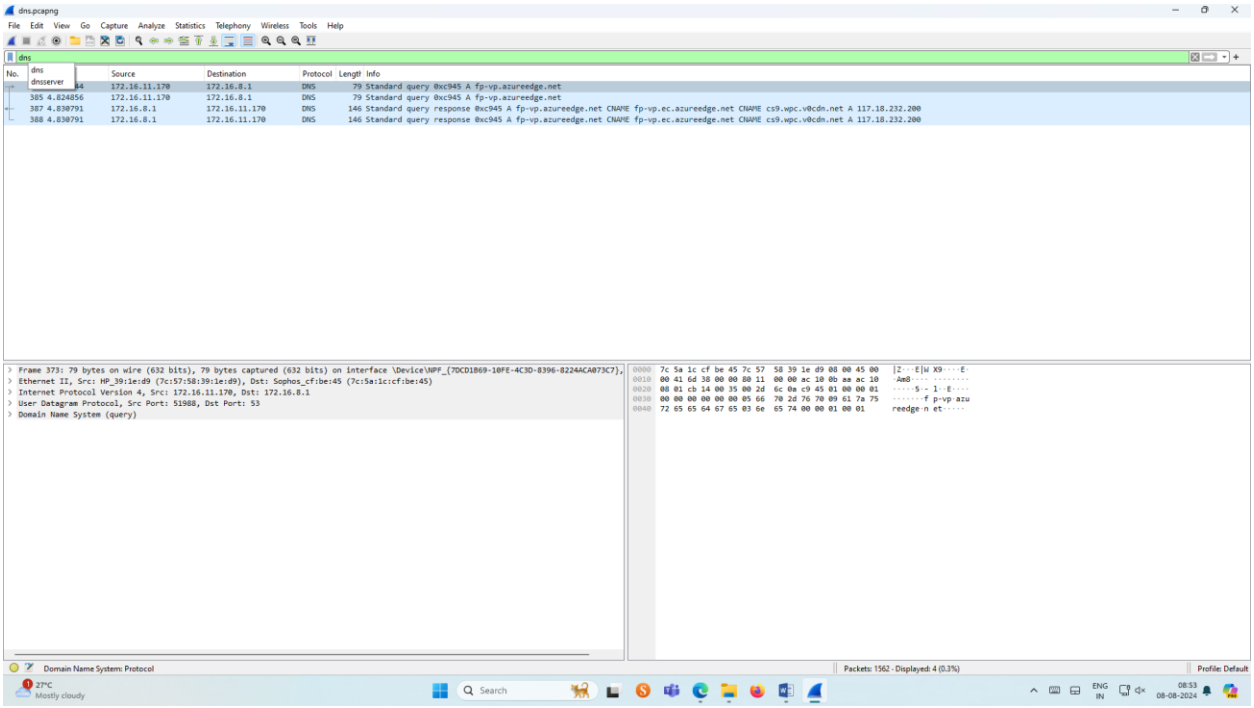



**4.Create a Filter to display only DNS packets and provide the flow graph.**

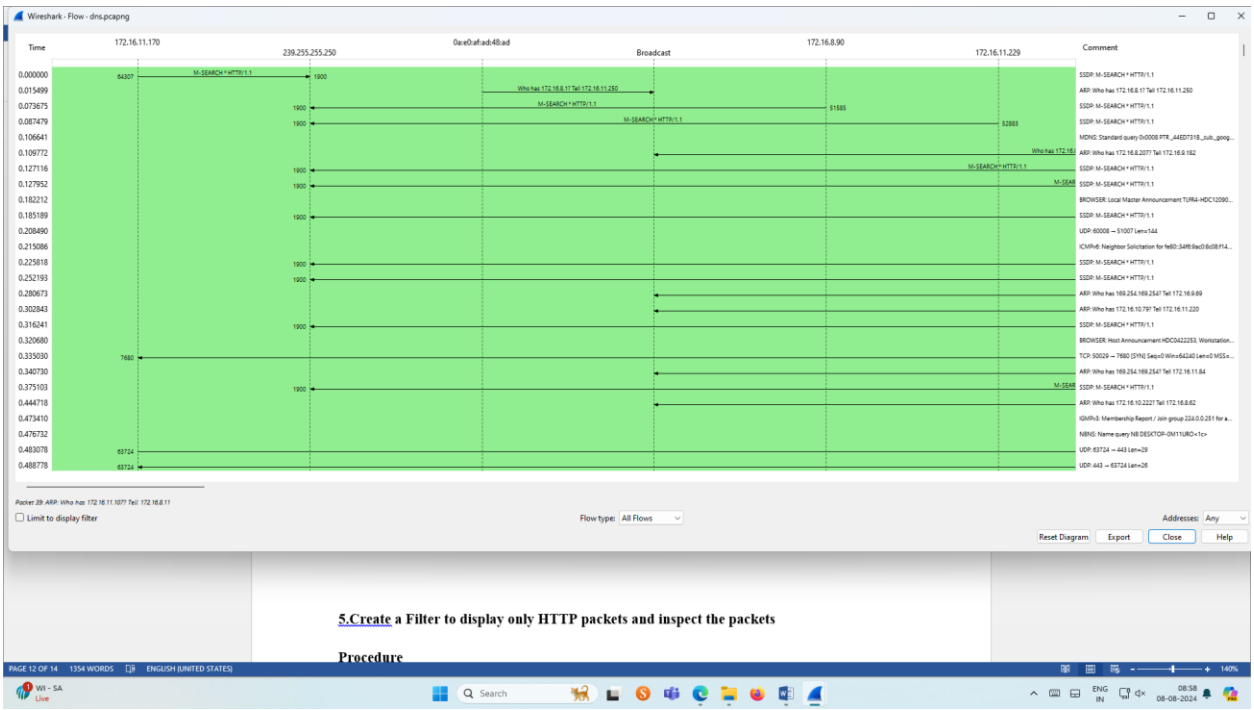
**Procedure**

- Select Local Area Connection in Wireshark.
- Go to capture  option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search DNS  packets in search bar.
- To see flow graph click Statistics Flow graph.
- Save the packets.

## Output




## Graph output

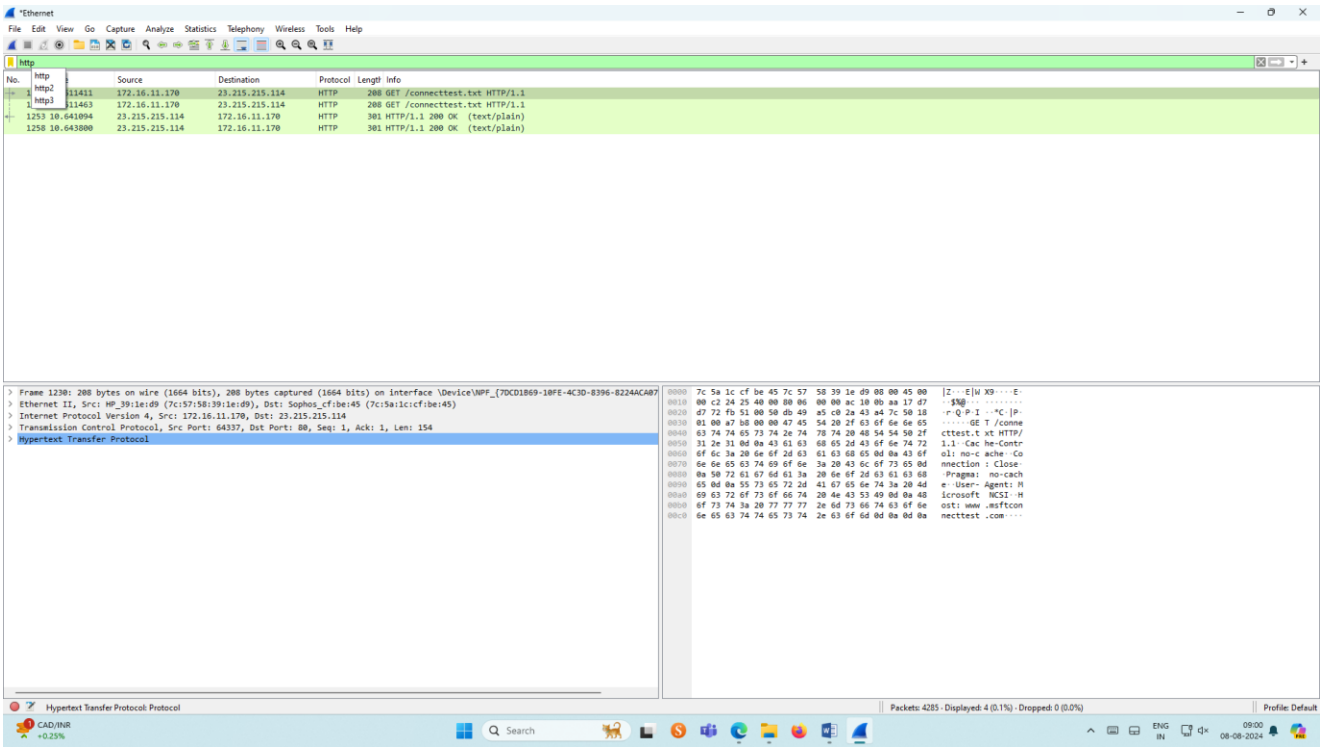


## 5.Create a Filter to display only HTTP packets and inspect the packets

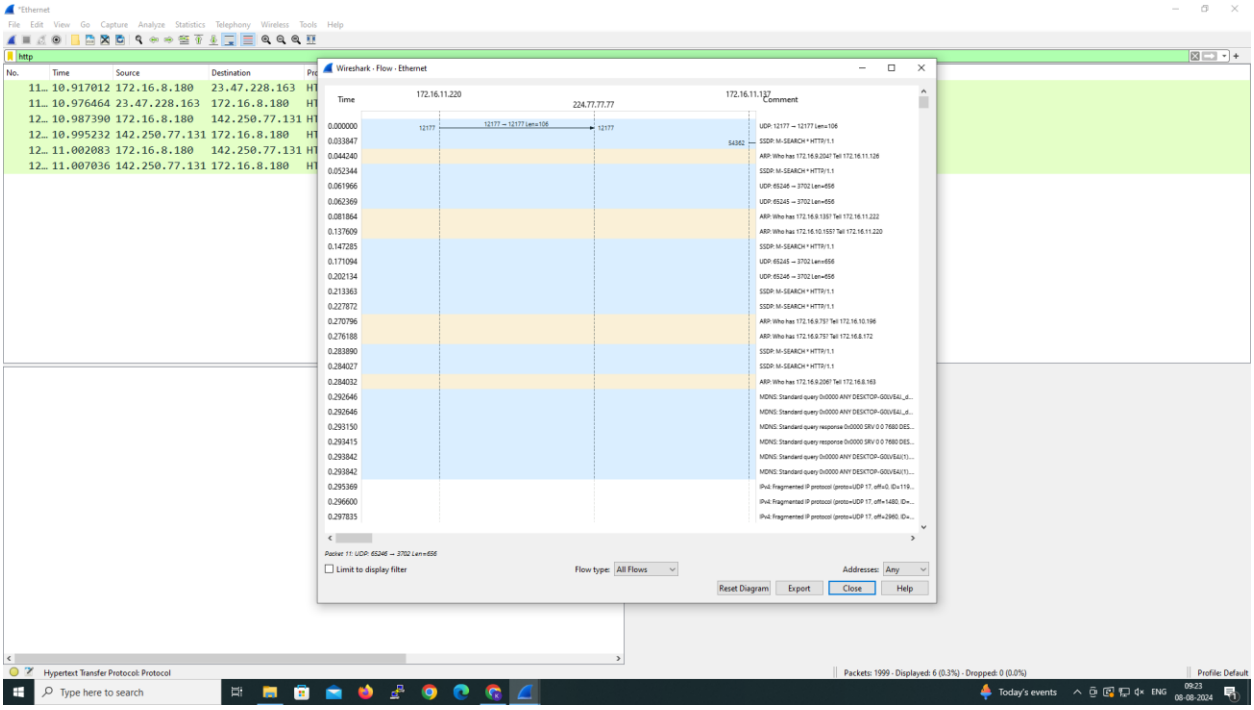
### Procedure

- Select Local Area Connection in Wireshark.
- Go to capture  option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search HTTP  packets in the search bar.
- Save the packets.

### Output



**Flow Graph output**

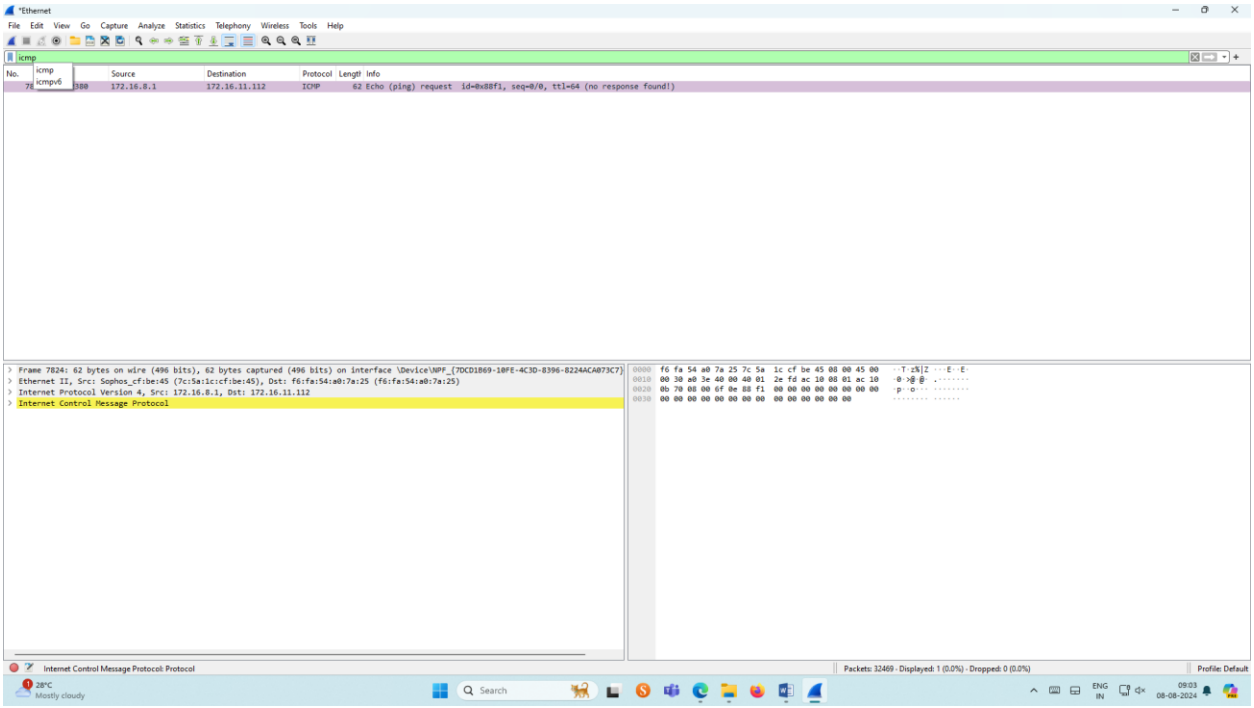



**6.Create a Filter to display only IP/ICMP packets and inspect the packets.**

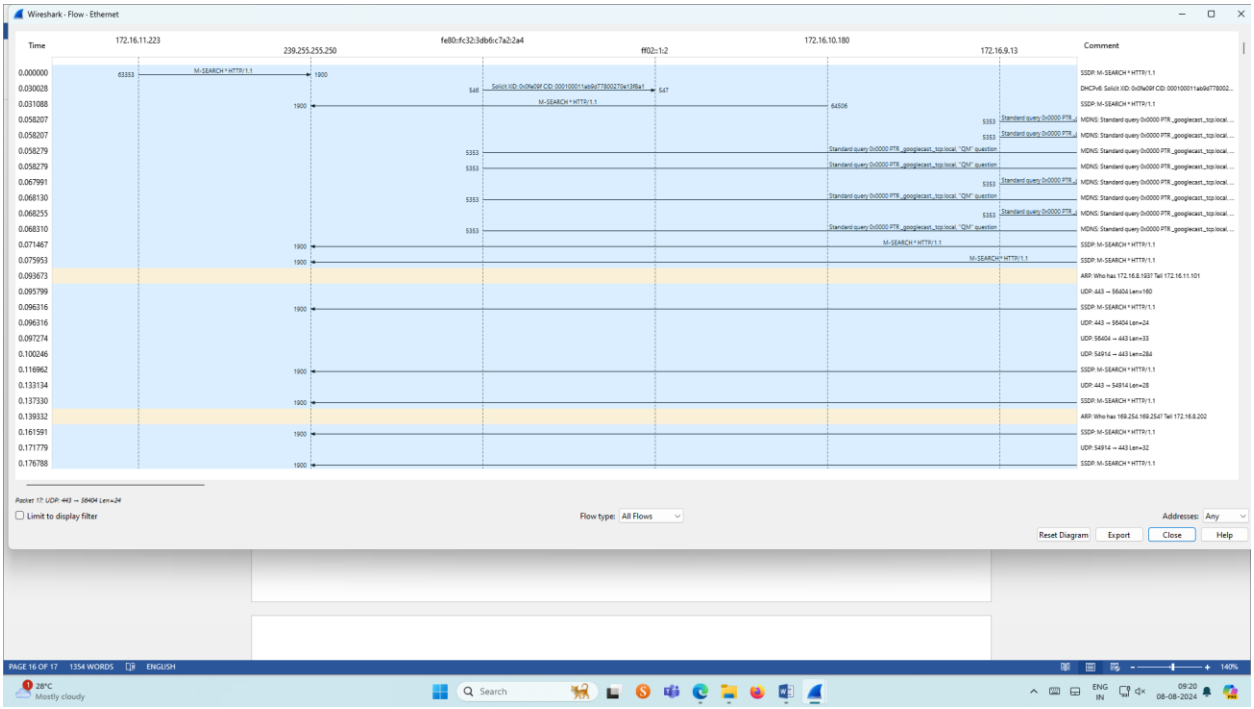
**Procedure**

- Select Local Area Connection in Wireshark.
- Go to capture  option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search ICMP/IP  packets in search bar.
- Save the packets

## Output




## Flow Graph output

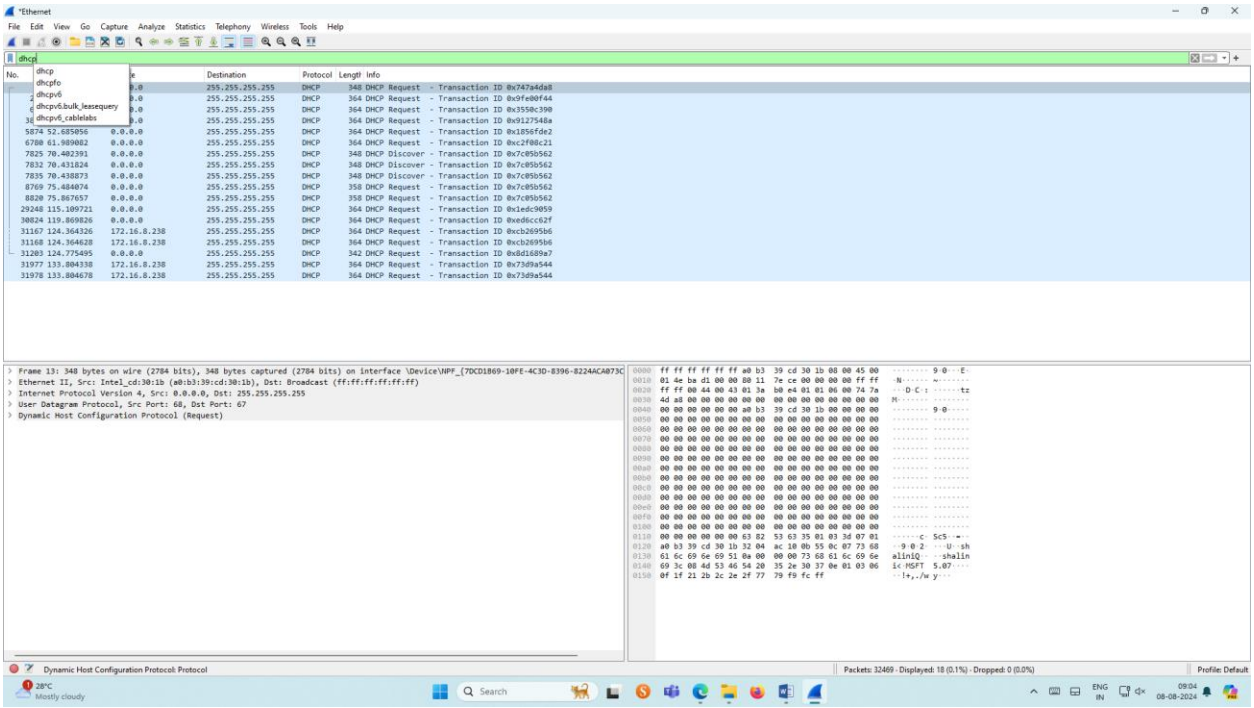


**7.Create a Filter to display only DHCP packets and inspect the packets.**

**Procedure**

- Select Local Area Connection in Wireshark.
- Go to capture  option
- Select stop capture automatically after 100 packets.
- Then click Start capture.
- Search DHCP  packets in search bar.
- Save the packets

**Output**




**Result:**
Thus,the study of packet sniffing using wireshark has been verified.