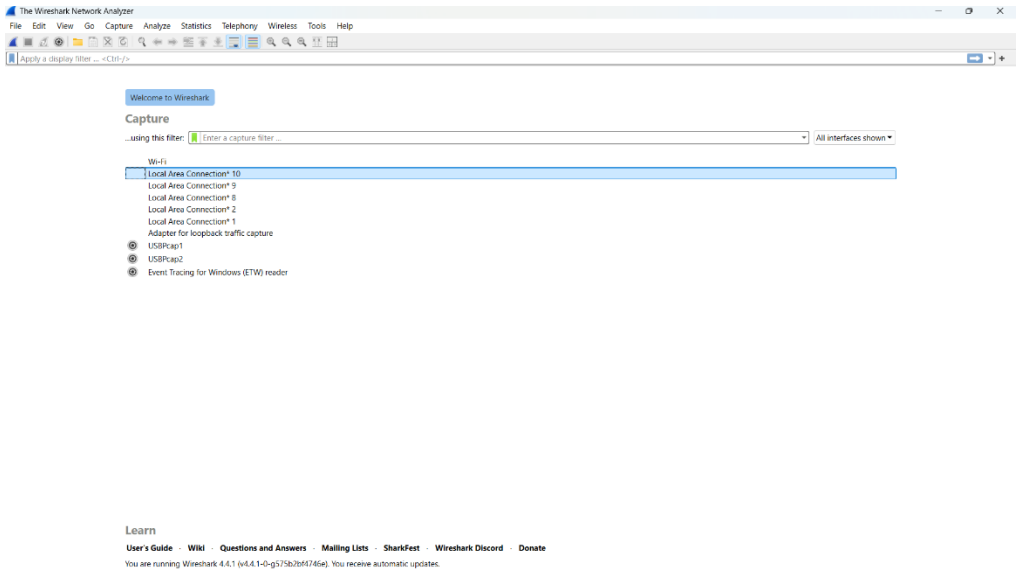
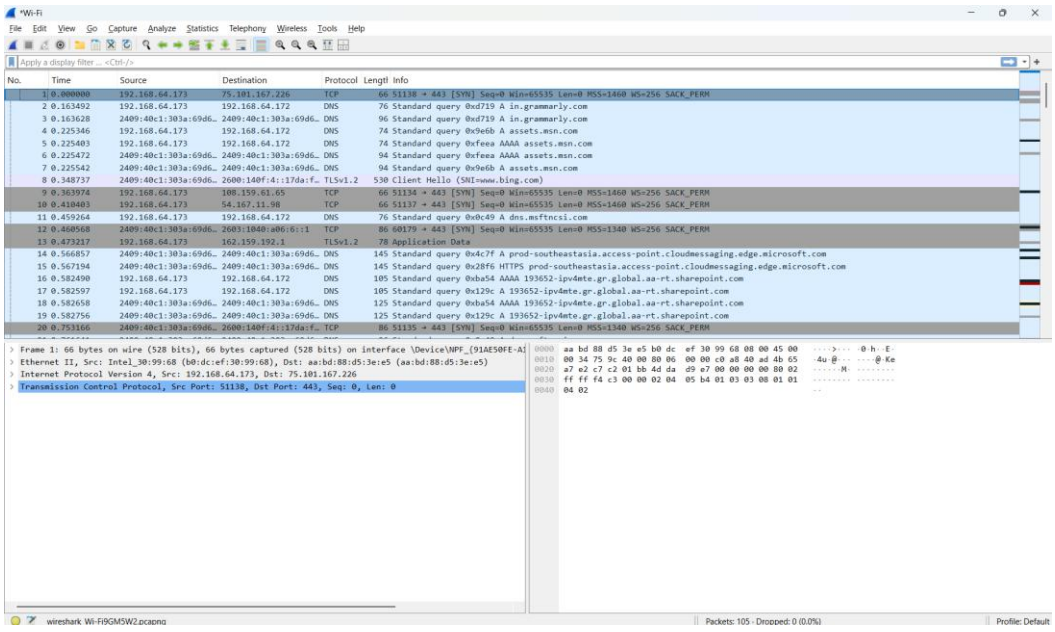
Marwadi University Marwadi Chandarana Group	**Marwadi University** **Faculty of Engineering and Technology** **Department of Information and Communication Technology**	
Subject: Computer Networks (01CT0503)	**Aim: Monitor the live/real time network and analyze the concepts of various networking protocols like ARP, RARP, DHCP, HTTP, etc.**	
Experiment No: 12	**Date: 24-11-2025**	**Enrolment No: 92301733024**

Step – 1:- Open Wireshark



Step – 2 :- Select the Network from which you want to communicate



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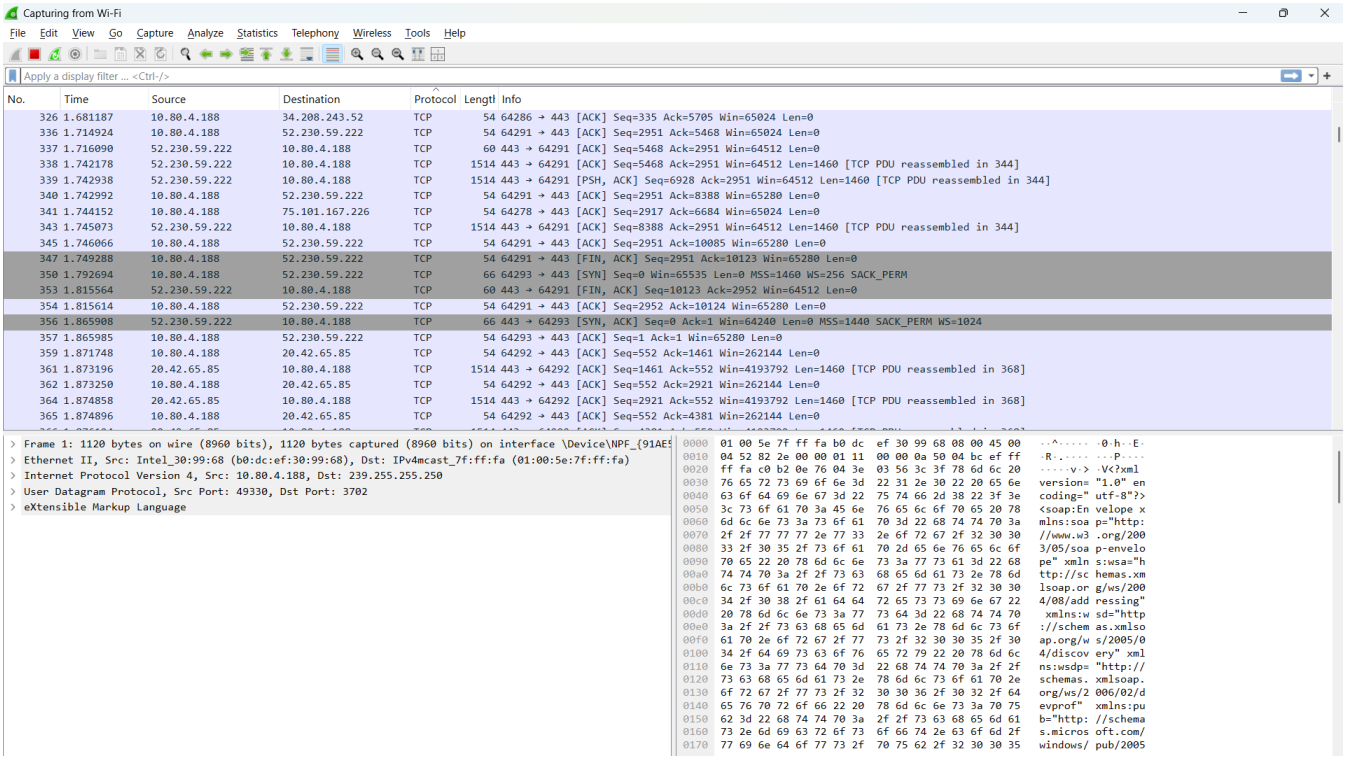
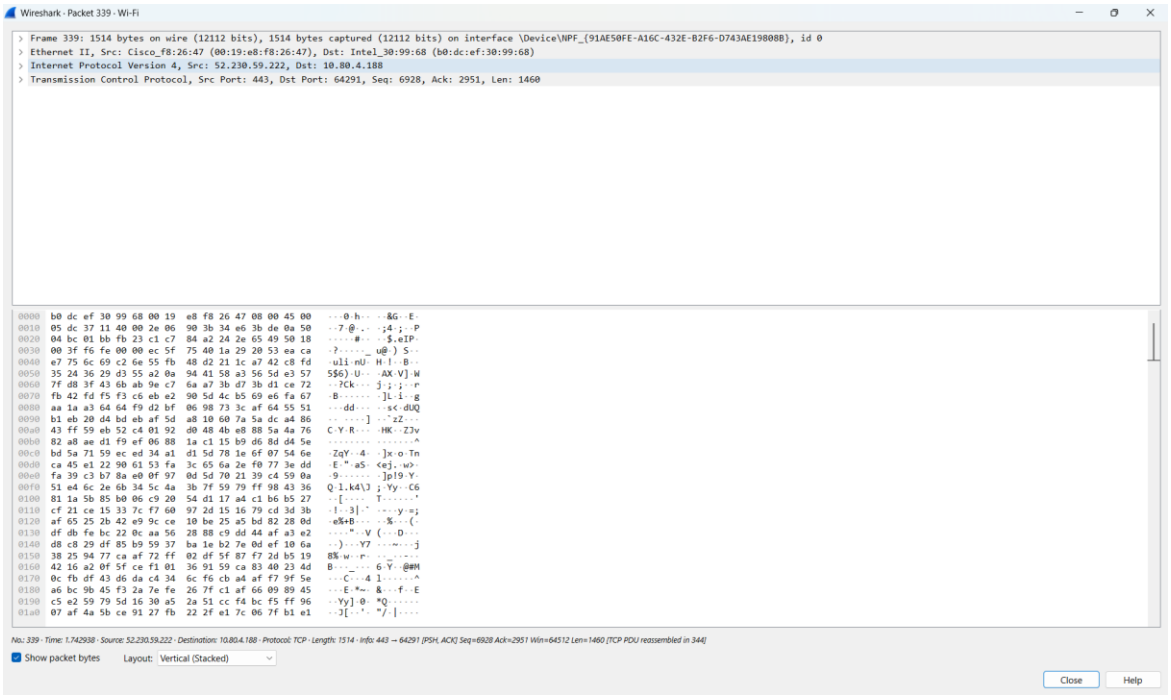
Step – 3 :- Now when we press Protocol button it will sort the packet based on protocol used.



Step – 4 :- Now when we press one of the packet it will open the packet and show every detsils.



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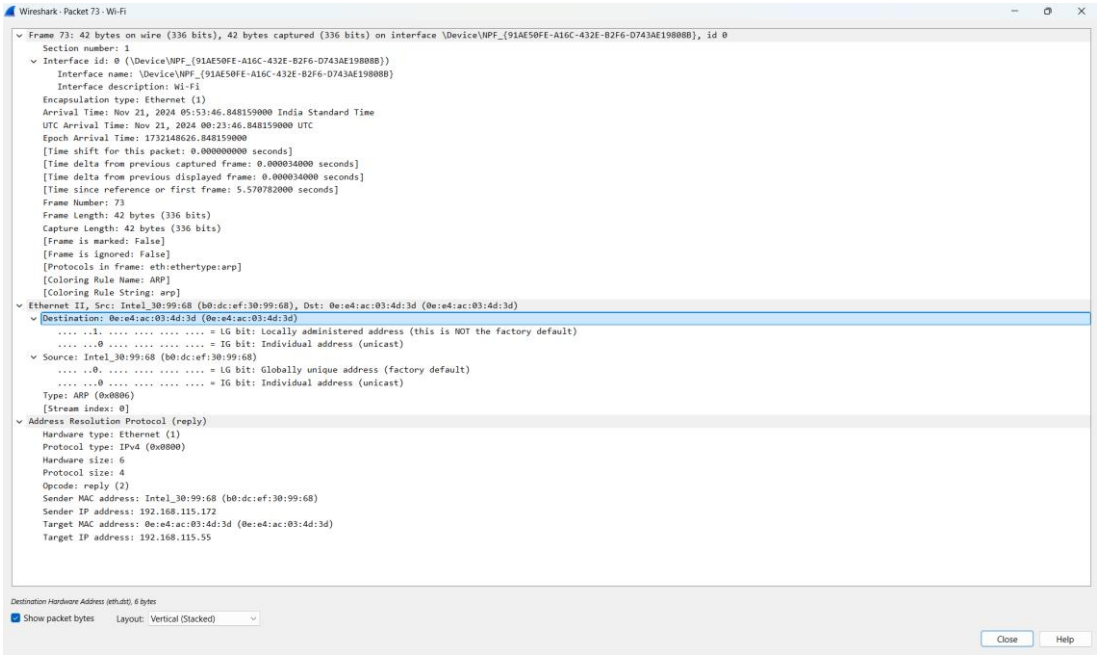
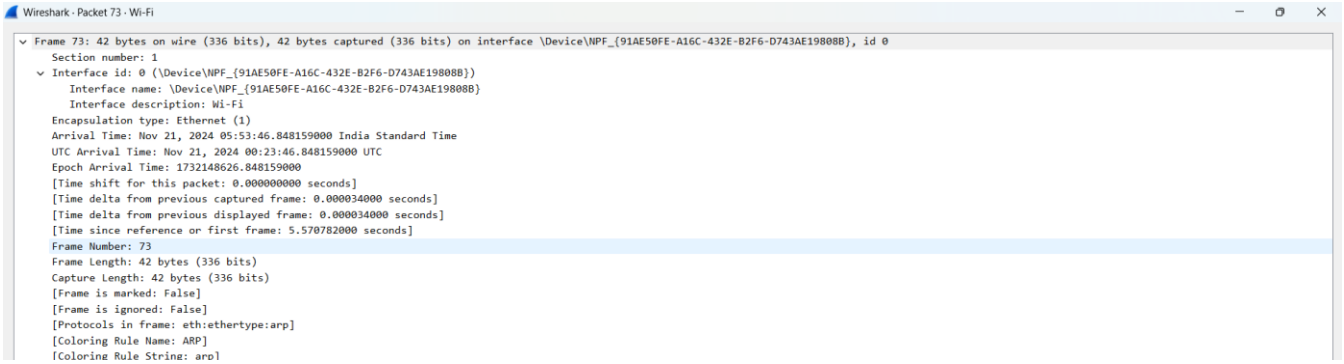
Step – 5 :- Now we will analyze one ARP Packet



Step – 7 :- Analysis of ARP Packet



- It is the timing details and frame length and frame no.

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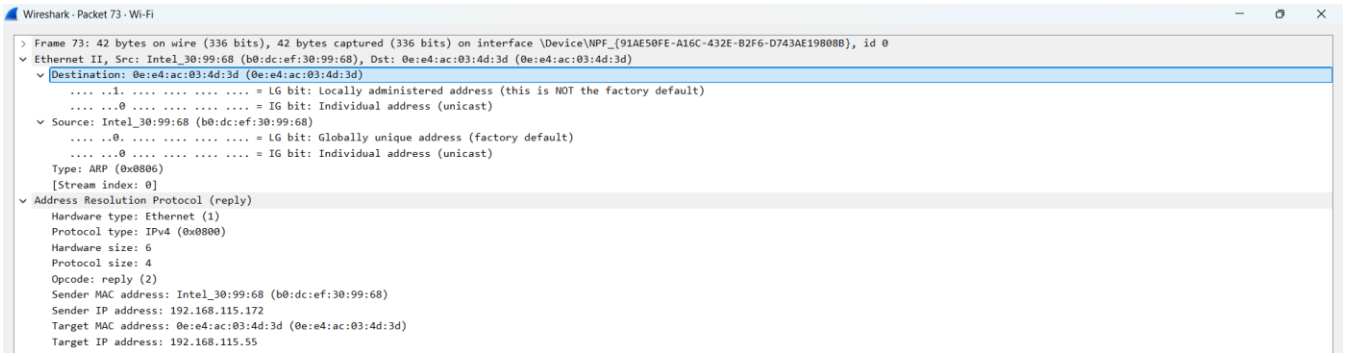
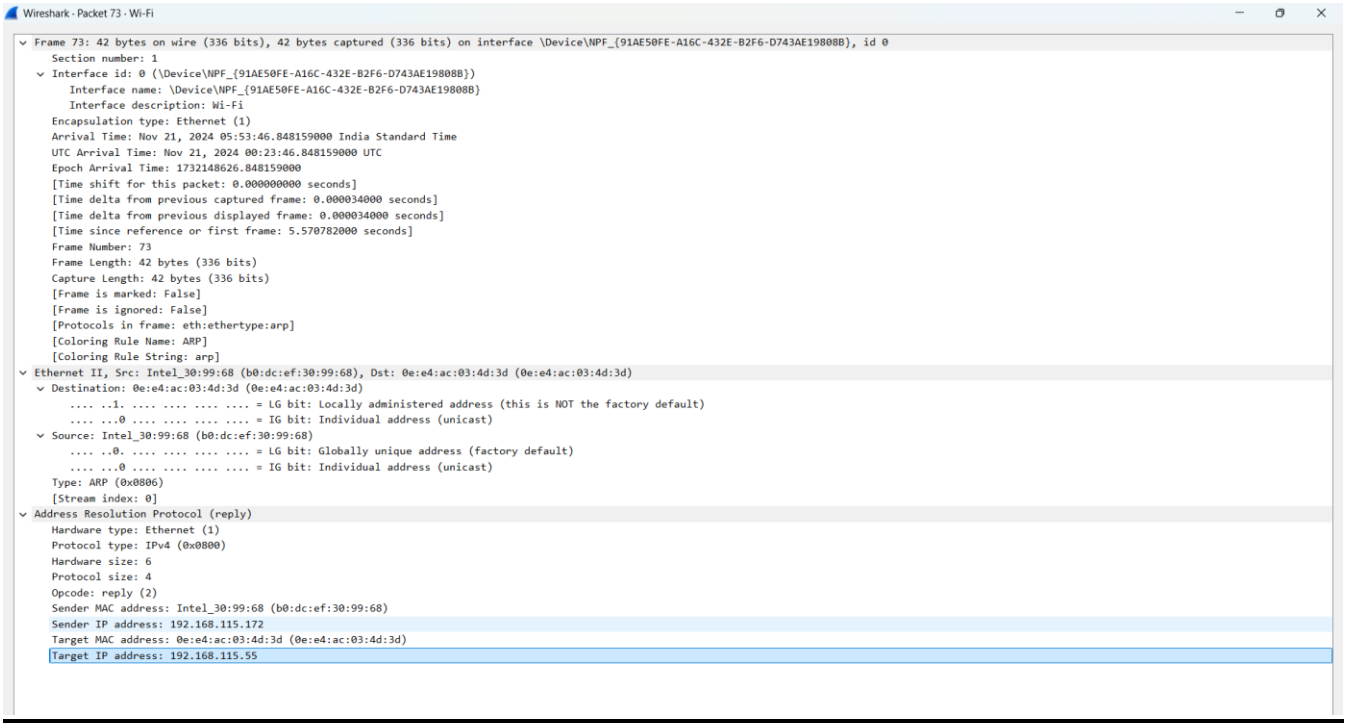
Step – 8:- It is showing the source and destination IP Address:-



Step – 9:- It is showing the TCP related details stored in the packets: like header section src and destination port no flags , checksum , length , timestamps.



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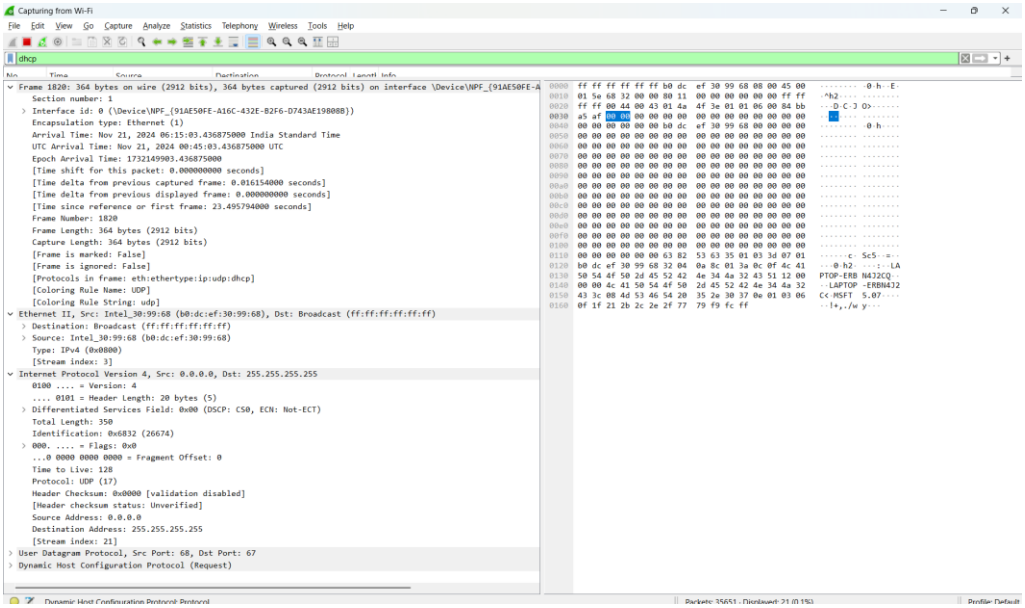
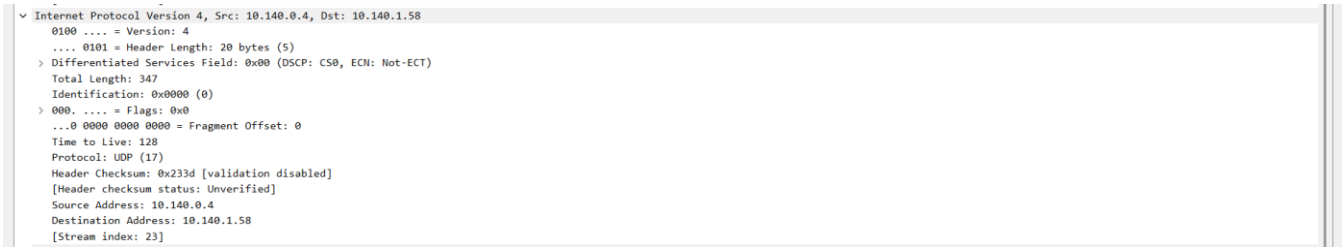
Step - 11:- now we will analyze the DHCP Packet.



Step - 12:- It us showing the timing related details of DHCP Packet.

Step - 13:- It is showing the ip related details of DHCP Packet.

Step - 14:- It is showing the details about the flags of DHCP Packet.



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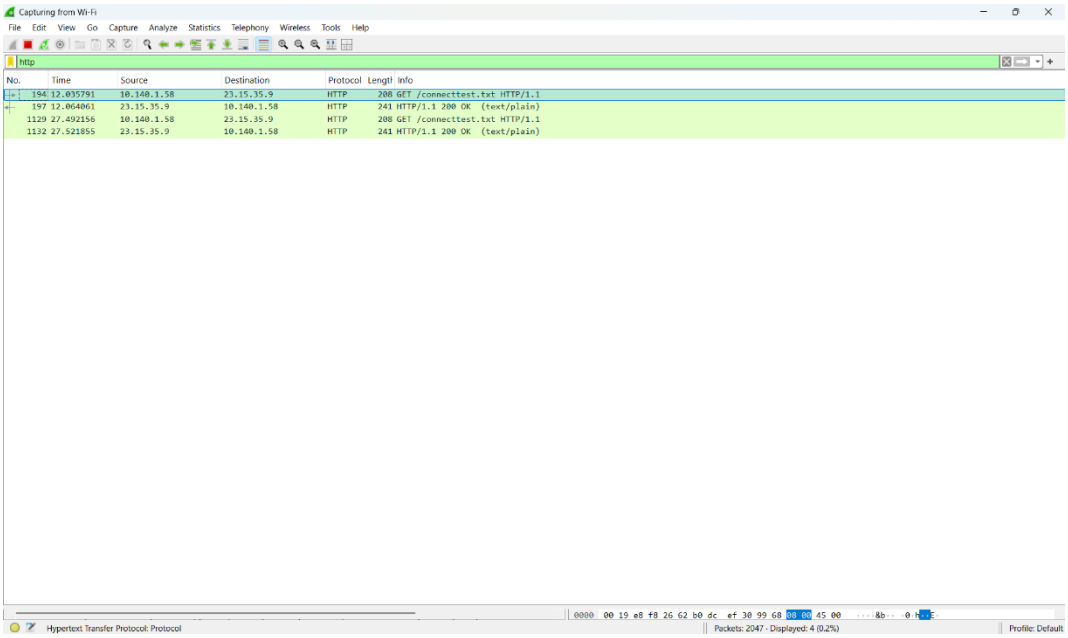
Step - 15:- It is showing the details about the header of DHCP Packet.

```
User Datagram Protocol, Src Port: 64580, Dst Port: 53
    Source Port: 64580
    Destination Port: 53
    Length: 47
    Checksum: 0x02eb [unverified]
    [Checksum Status: Unverified]
    [Stream index: 103]
    [Stream Packet Number: 1]
  > [Timestamps]
    UDP payload (39 bytes)
```

Step - 16:- Now we will analyze the HTTP Protocol.



Step - 17:- These are the timing related details of http packet

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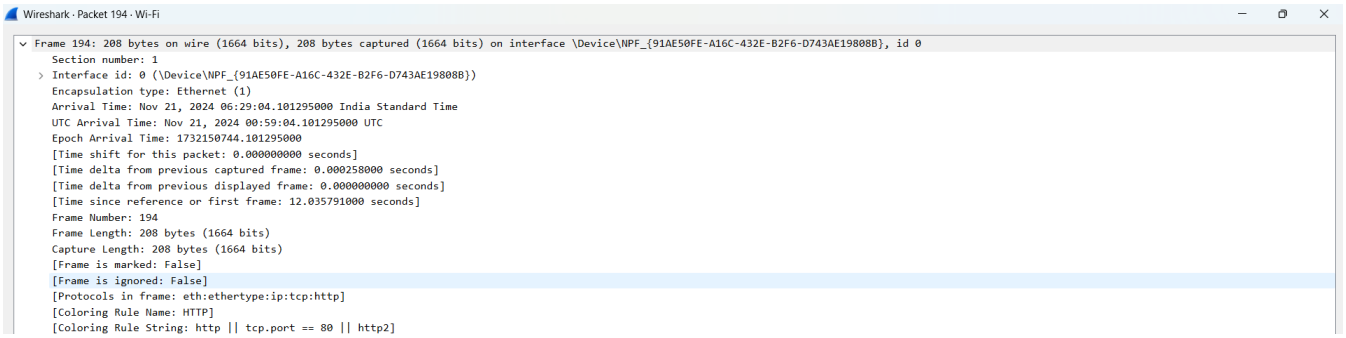

Step - 18:- these are the fields of http packets :-