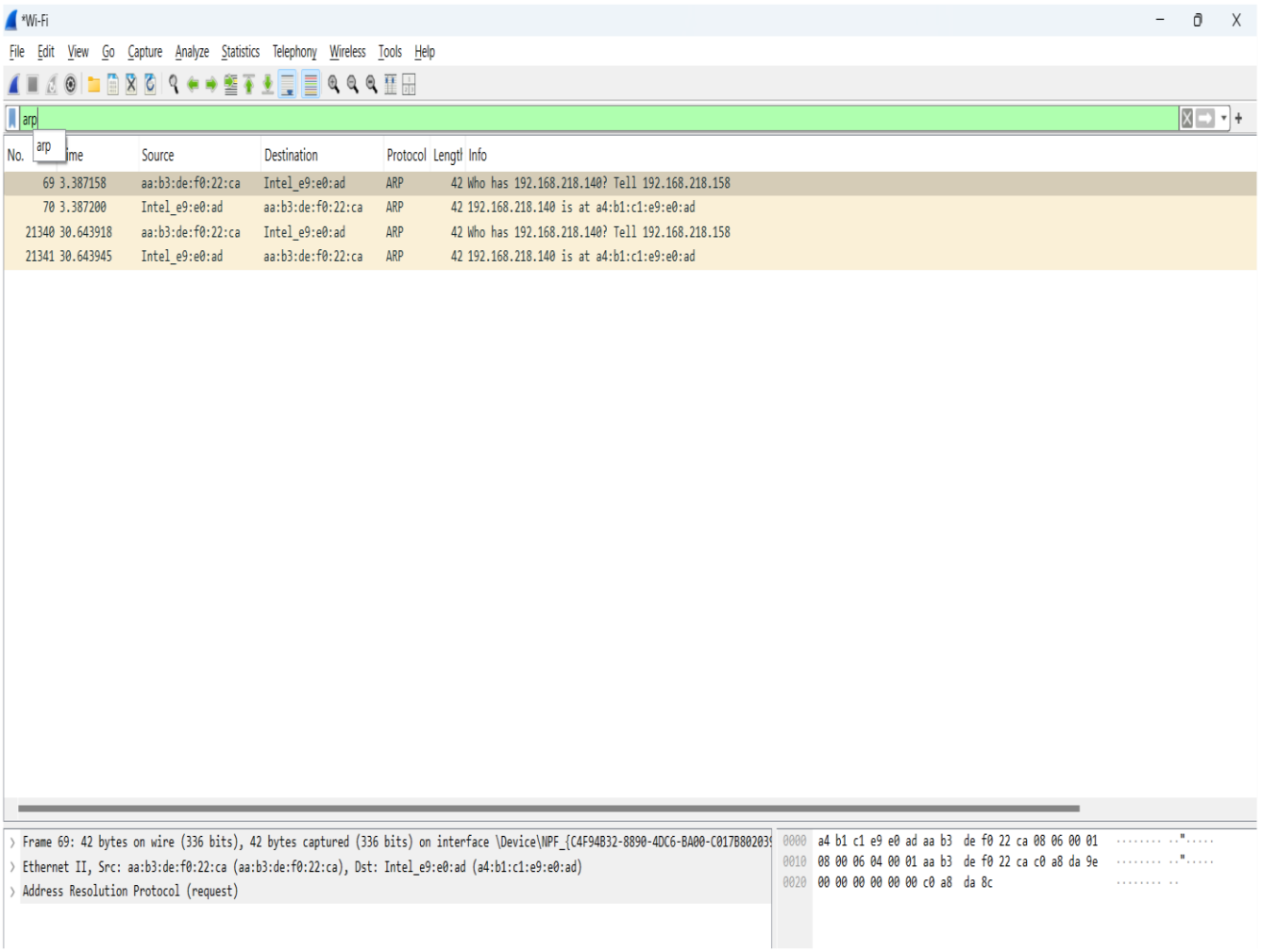
Name: Devansh Srivastava

Registration No:21BCE0527

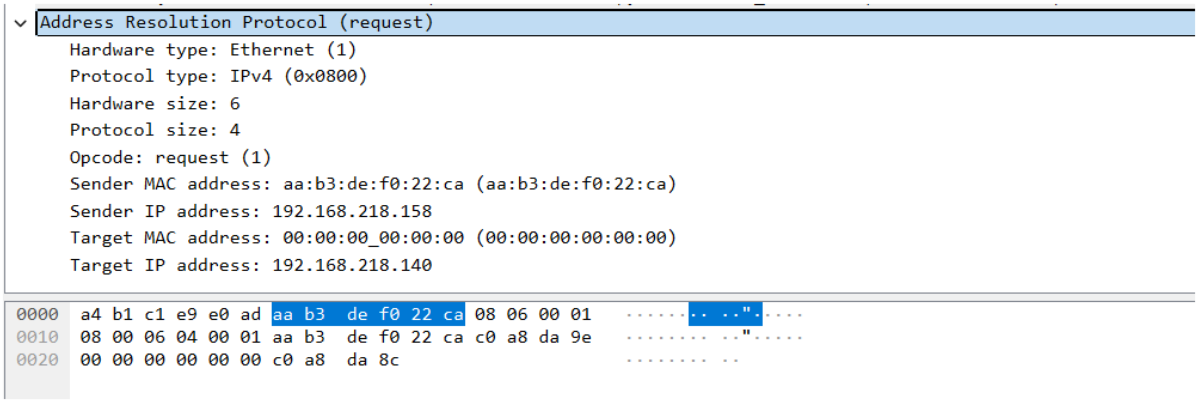
Network Training Programme

Module 5

Q1. Capture and analyze ARP packets using Wireshark. Inspect the ARP request and reply frames, and discuss the role of the sender's IP and MAC address in these packets.



ARP request:



Role of Sender's IP address And Sender's MAC Address

- Sender's IP address is that IP address of that device which responds the ARP request
- Sender's MAC Address is the MAC Address of the responding device.

Key Learning:

1.ARP is essential for communication within a local network.
2.ARP request is broadcast in nature, while ARP reply is unicast.
3. The sender's IP and MAC in ARP packets help establish device identity.
4.ARP tables store these mappings to reduce future requests.