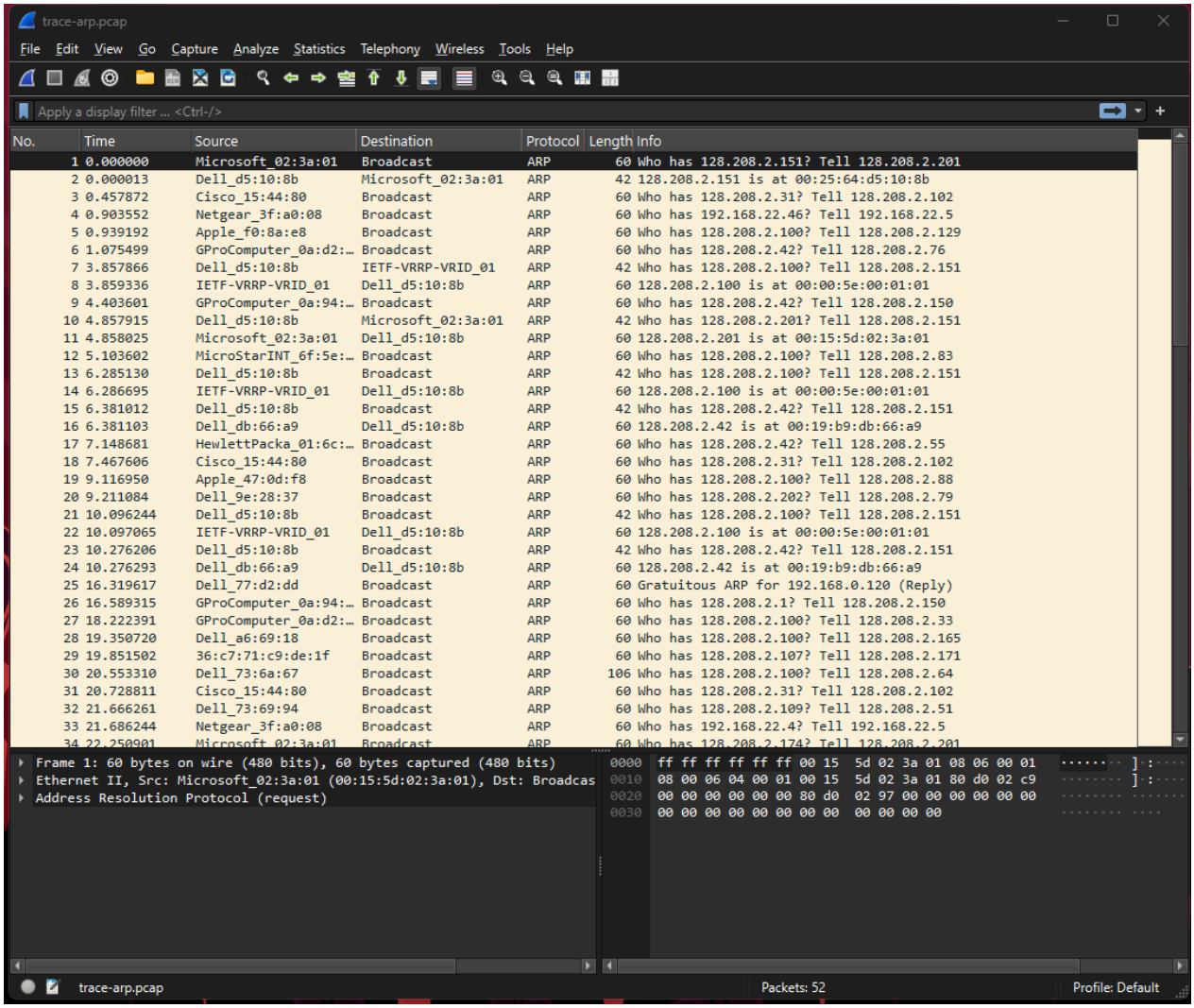
Assignment

Name - *Aryan Thapliyal*

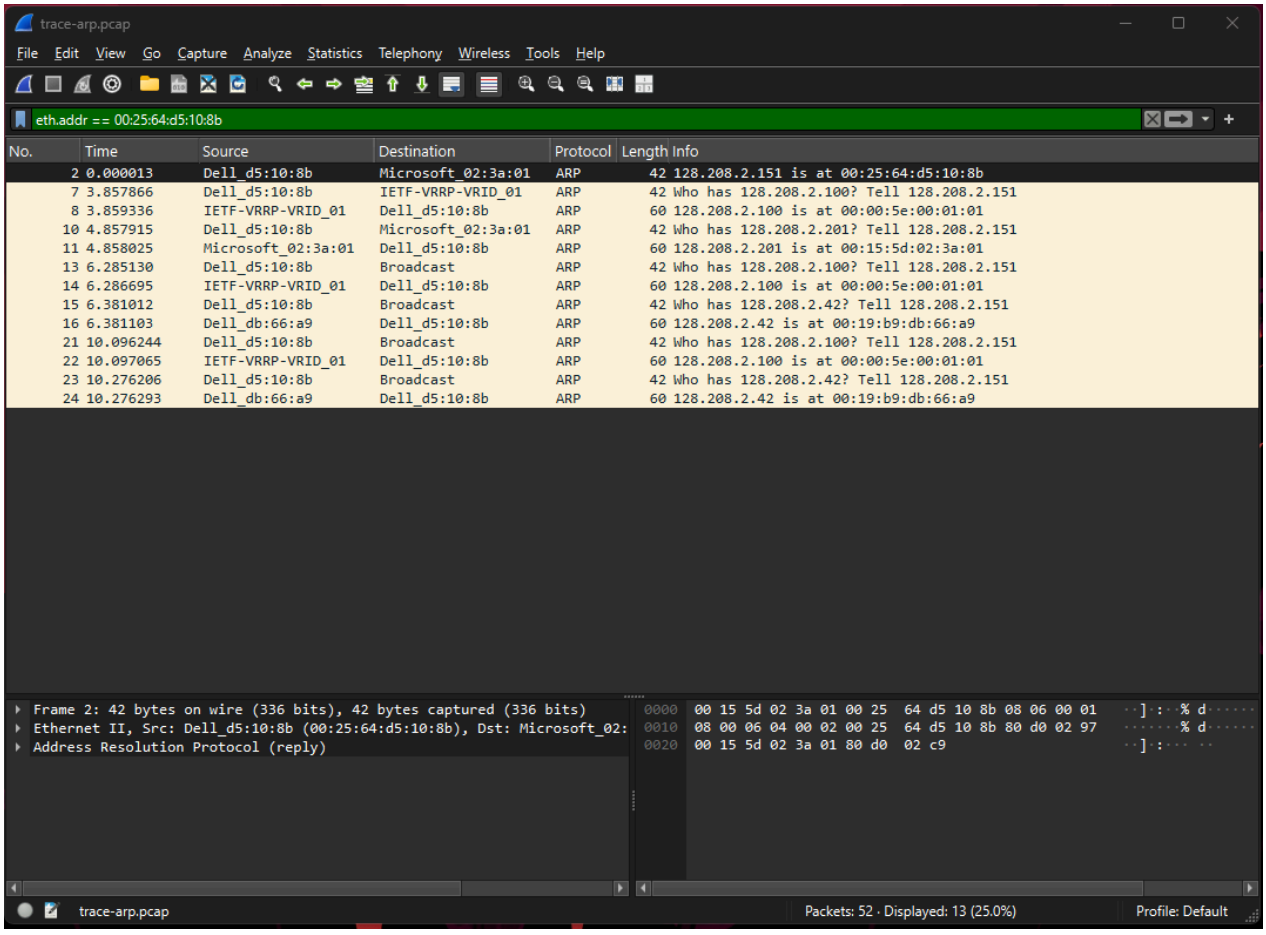
Roll No. - *13*

Subject - *Internetworking with TCP/IP*

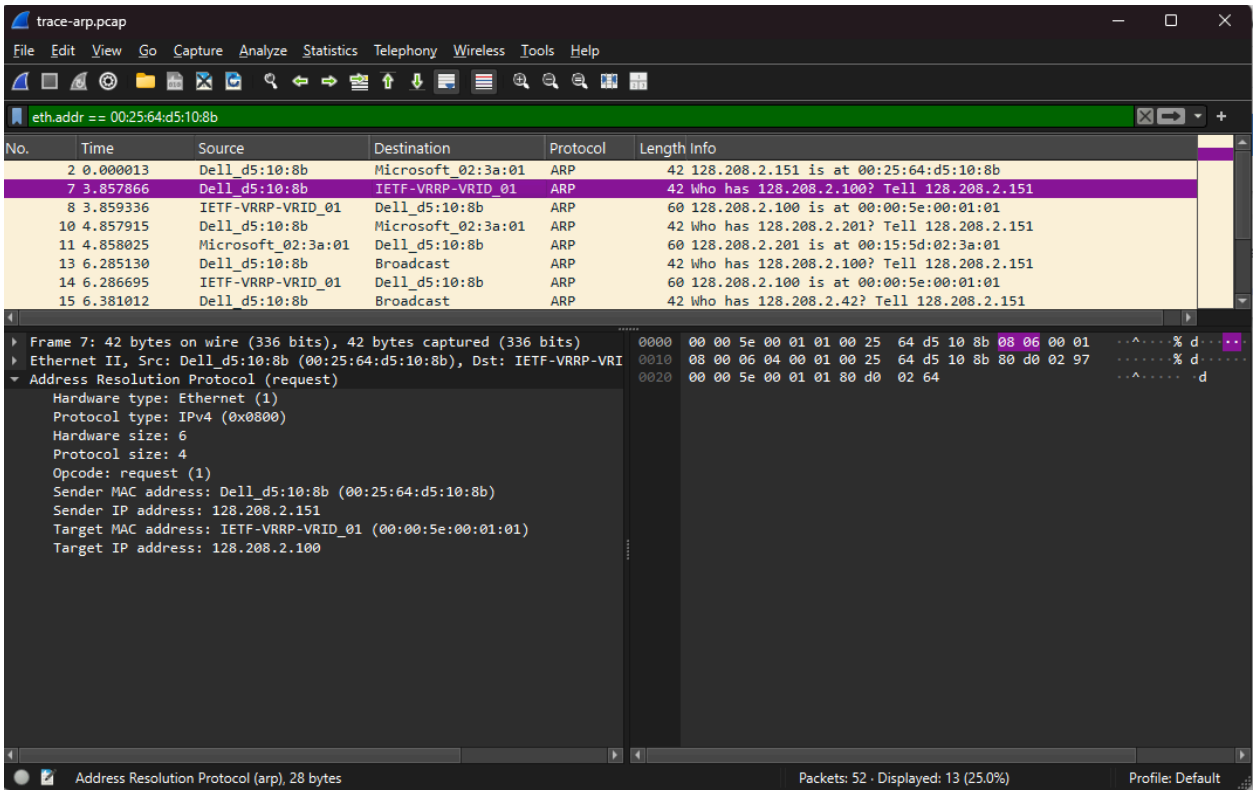
Step 2: Initial screenshot



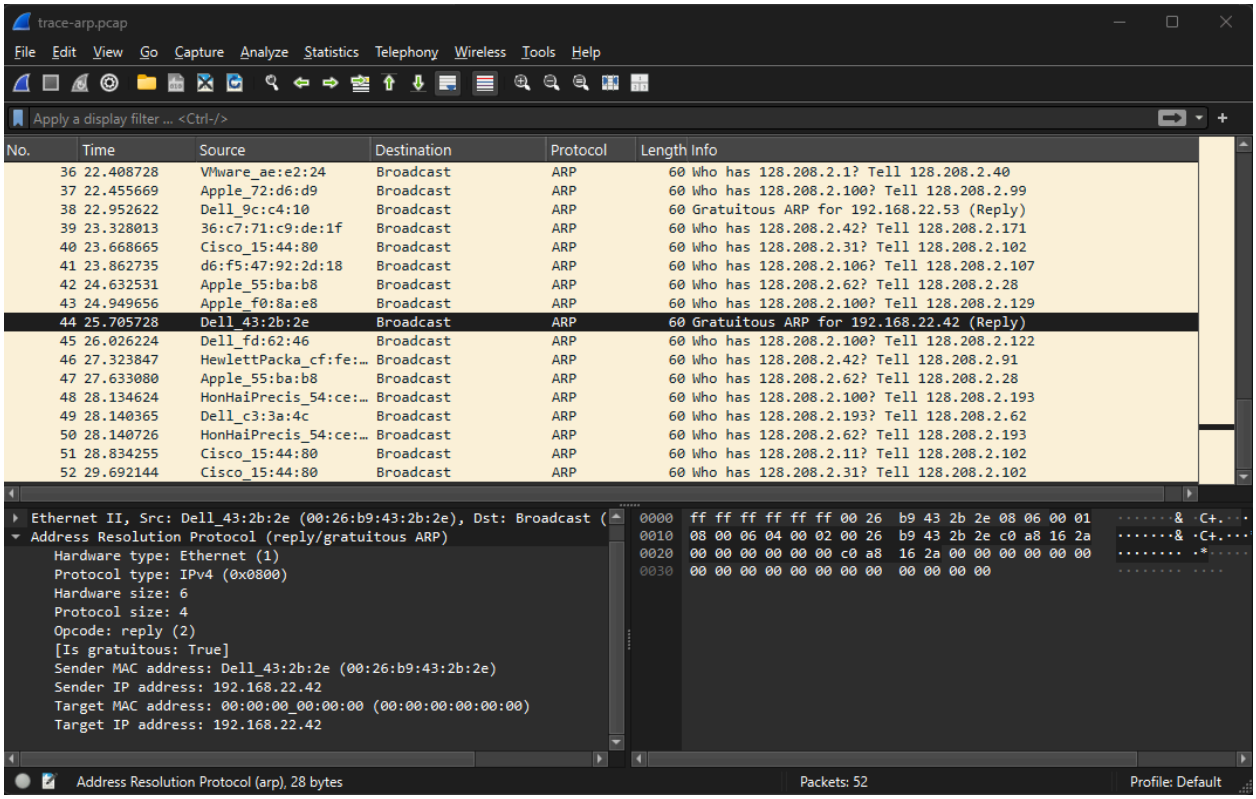
Step 3: Display filter



Step 4: Request packet



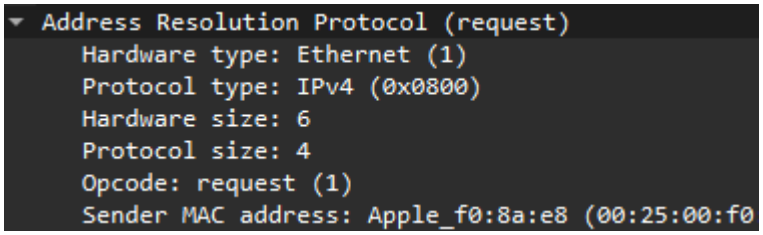
Step 4: Reply packet

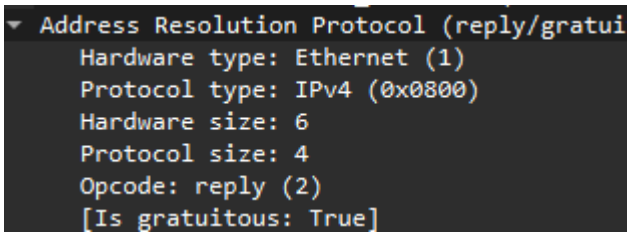


Examine an ARP request and ARP reply to answer these questions: share screenshots to justify your answers.

1. *What opcode is used to indicate a request? What about a reply?*

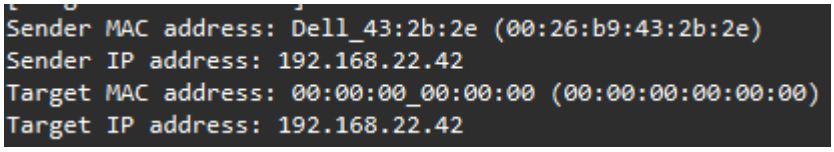
Ans. ARP request uses opcode 1, and ARP reply uses opcode 2.





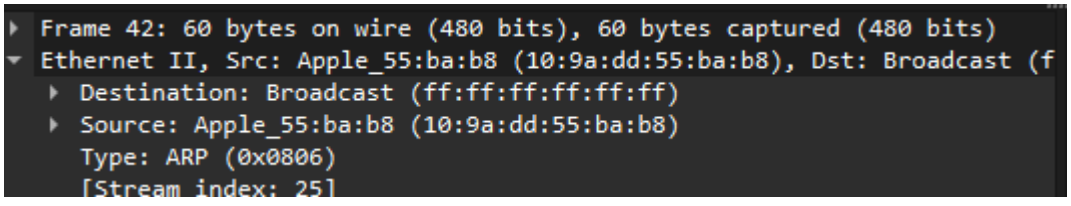
2. *What value is carried on a request for the unknown target MAC address?*

*Ans. **00:00:00:00:00:00** indicates an unknown MAC address.*



3. *What Ethernet Type value indicates that ARP is the higher layer protocol?*

*Ans. The Ethernet Type for ARP is **0x0806**.*



4. Is the ARP reply broadcast (like the ARP request) or not?

Ans. ARP replies are unicast sent directly to the requester's MAC.