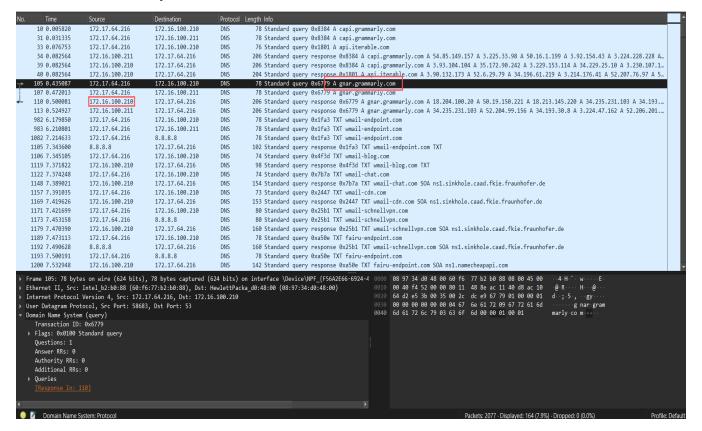
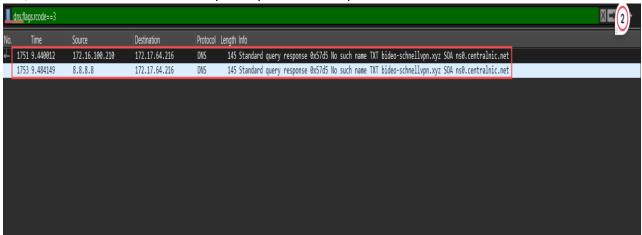
Week 4-Computer Networks LAB



Task#1

6.

- 1. The Record Type of DNS is 'A'.
- 2. The Domain Name used by the server was gnar.grammarly.com: type A, class IN.
- 3. DNS query is using **UDP** as the transport protocol.
- 4. The IP address of the response server is 172.16.100.210.
- 5. Yes, the IP was included in the response packet of the queried server.



There were 2 packets for dns.flags.rcode==3.

```
Flags: 0x8183 Standard query response, No such name
      1... .... = Response: Message is a response
      .000 0... .... = Opcode: Standard query (0)
      .... .0.. .... = Authoritative: Server is not an authority for domain
      ......0. ..... = Truncated: Message is not truncated
      .... ...1 .... = Recursion desired: Do query recursively
      .... 1... = Recursion available: Server can do recursive queries
      .... .0.. .... = Z: reserved (0)
      .... ...0. ... = Answer authenticated: Answer/authority portion was not authenticated by the serv
      .... .... 0 .... = Non-authenticated data: Unacceptable
      .... 0011 = Reply code: No such name (3)
    Internet Protocol Version 4, Src: 172.16.100.210, Dst: 172.17.64.216
       0100 .... = Version: 4
       .... 0101 = Header Length: 20 bytes (5)
    Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
      Total Length: 131
       Identification: 0x79f3 (31219)
     ▶ 000. .... = Flags: 0x0
        ..0 0000 0000 0000 = Fragment Offset: 0
      Time to Live: 127
      Protocol: UDP (17)
       Header Checksum: 0xc3aa [validation disabled]
       [Header checksum status: Unverified]
       Source Address: 172.16.100.210
      Destination Address: 172.17.64.216
8.
```