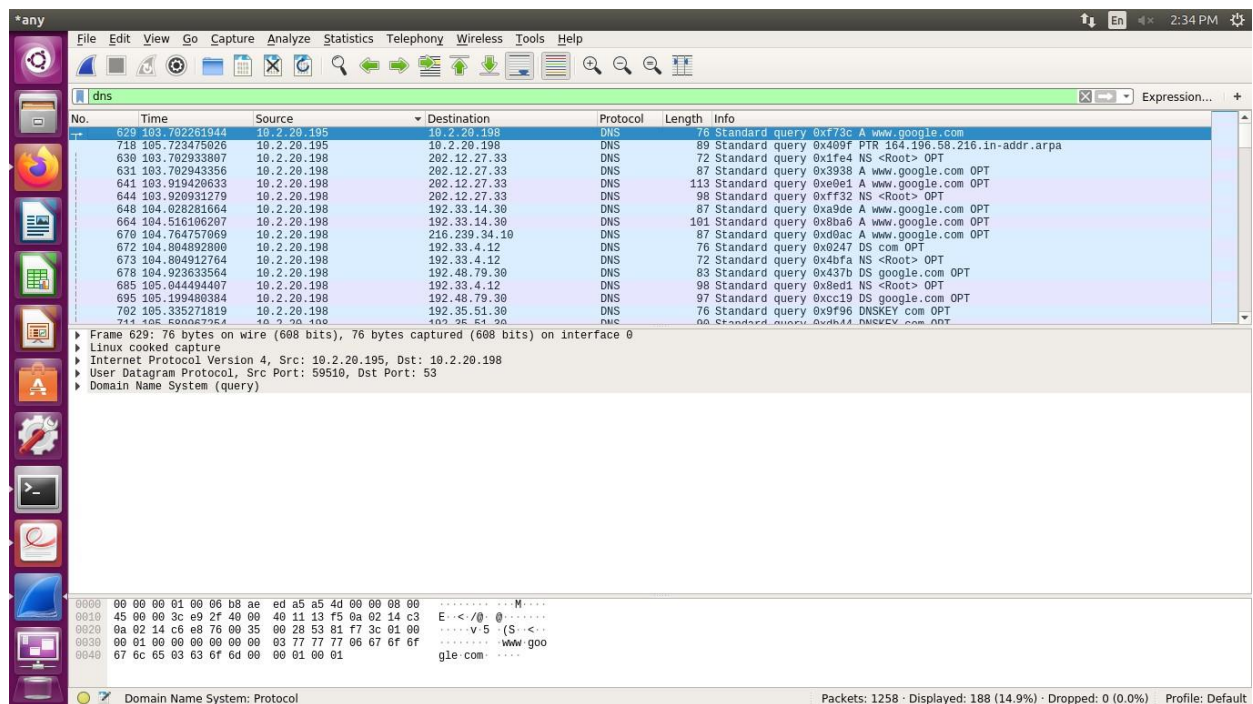


COMPUTER NETWORKS LAB – WEEK 4

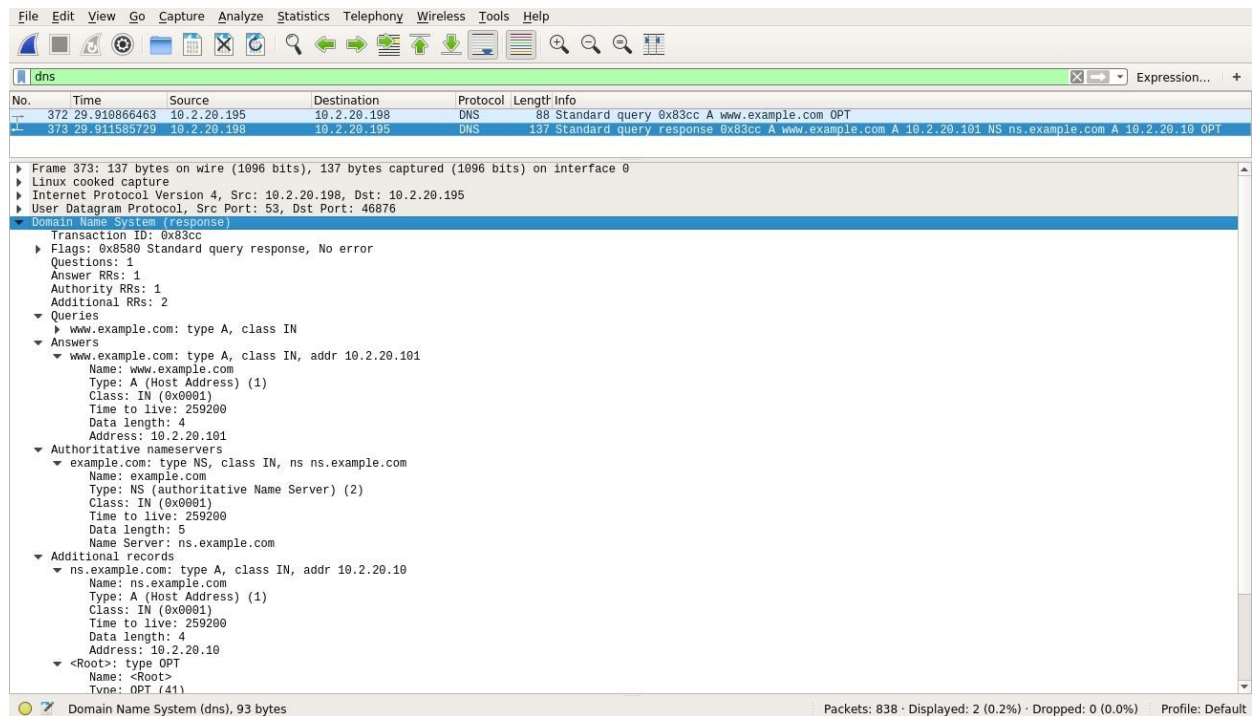
Name: Tushar Y S

SRN: PES1UG19CS545

- Wireshark packet capture – source and destination IP addresses [observation 1-3]



- (DNS filter for www.example.com)



- (dig www.example.com command in terminal)

```
student@CSELAB: ~
student@CSELAB: ~ x student@CSELAB: ~ x student@CSELAB: ~ +
student@CSELAB:~$ dig www.example.com

; <<>> DiG 9.10.3-P4-Ubuntu <<>> www.example.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 33740
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 2

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;www.example.com.                IN      A

;; ANSWER SECTION:
www.example.com.                259200  IN      A      10.2.20.101

;; AUTHORITY SECTION:
example.com.                    259200  IN      NS      ns.example.com.

;; ADDITIONAL SECTION:
ns.example.com.                 259200  IN      A      10.2.20.10

;; Query time: 0 msec
;; SERVER: 10.2.20.198#53(10.2.20.198)
;; WHEN: Fri Feb 19 14:56:19 IST 2021
;; MSG SIZE rcvd: 93

student@CSELAB:~$
```

```
student@CSELAB: ~  
;; Got answer:  
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 20363  
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 2  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:: udp: 4096  
;; QUESTION SECTION:  
;www.example.com.                IN      A  
  
;; ANSWER SECTION:  
www.example.com.                259200  IN      A      10.2.20.101  
  
;; AUTHORITY SECTION:  
example.com.                    259200  IN      NS      ns.example.com.  
  
;; ADDITIONAL SECTION:  
ns.example.com.                 259200  IN      A      10.2.20.10  
  
;; Query time: 0 msec  
;; SERVER: 127.0.1.1#53(127.0.1.1)  
;; WHEN: Fri Feb 19 14:49:15 IST 2021  
;; MSG SIZE rcvd: 93  
  
student@CSELAB:~$
```

- DNS Cache for **www.google.com**

