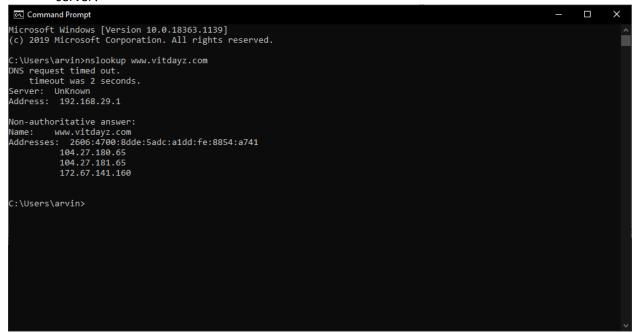
CSE1004 – LAB SUBMISSION 11B – 21/10/2020 Done by: ARVIND C B 19BCE1221 Faculty: Dr. Kanchana Devi V

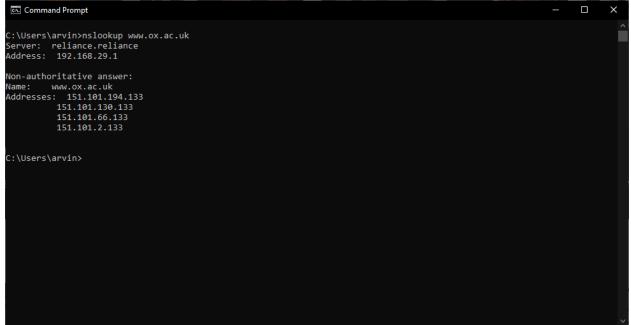
For questions with websites, as instructed I have used the website I am working with (<u>www.vitdayz.com</u>).

For a few questions I have used chennai.vit.ac.in and vit.ac.in

1. Run *nslookup* to obtain the IP address of a Web server in Asia. What is the IP address of that server?



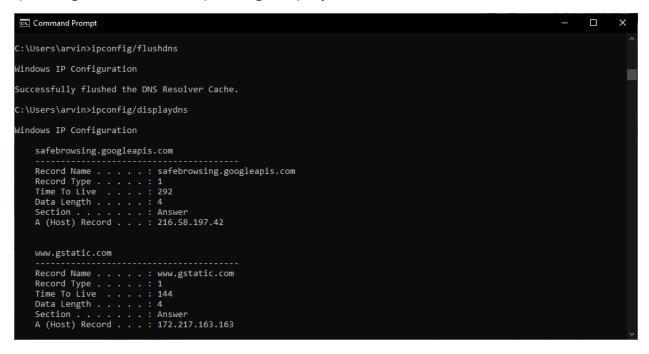
2. Run *nslookup* to determine the authoritative DNS servers for a university in Europe.



ipconfig

```
Command Prompt
C:\Users\arvin>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet:
    Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Unknown adapter Local Area Connection:
    Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 1:
    Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 10:
    Media State . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Wi-Fi:
   Connection-specific DNS Suffix .:
Link-local IPv6 Address . . . : fe80::bda3:6993:ef7f:ad3b%12
IPv4 Address . . . . . . : 192.168.29.98
Subnet Mask . . . . . . : 255.255.255.0
Default Gateway . . . : 192.168.29.1
Ethernet adapter Bluetooth Network Connection:
    Media State . . . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
C:\Users\arvin>
```

ipconfig/flushdns and ipconfig/displaydns



- 3. Locate the DNS query and response messages. Are then sent over UDP or TCP? **Ans.** They are sent over UDP
- 4. What is the destination port for the DNS query message? What is the source port of DNS response message?

Ans. The destination port for the DNS query is 53 and the source port of the DNS response is 53.

5. To what IP address is the DNS query message sent? Use ipconfig to determine the IP address of your local DNS server. Are these two IP addresses the same?

DNS Server = 192.168.29.1

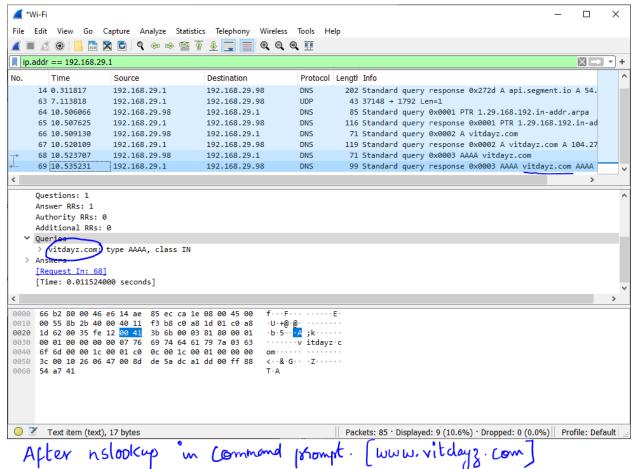
The DNS Server is 192.168.29.1

6. Examine the DNS query message. What "Type" of DNS query is it? Does the query message contain any "answers"?

Ans. Type A, does not contain answers

- Start packet capture.
- Do an nslookup on www.mit.edu
- Stop packet capture.





12. To what IP address is the DNS query message sent? Is this the IP address of your default local DNS server?

The 1P address to which DNS Query will be Sent: 192.168.29.1

nslookup -type=NS vitdayz.com

```
EX Command Prompt

C:\Users\arvin>nslookup -type=NS vitdayz.com
Server: reliance.reliance
Address: 192.168.29.1

Non-authoritative answer:
vitdayz.com nameserver = jay.ns.cloudflare.com
vitdayz.com nameserver = dawn.ns.cloudflare.com

C:\Users\arvin>
```

nslookup www.chennai.vit.ac.in vit.ac.in

```
C:\Users\arvin>nslookup www.chennai.vit.ac.in vit.ac.in
DNS request timed out.
    timeout was 2 seconds.
Server: UnKnown
Address: 136.233.9.13

DNS request timed out.
    timeout was 2 seconds.
*** Request timed out.
    timeout was 2 seconds.
C:\Users\arvin>

C:\Users\arvin>
```