1. Type ipconfig on command prompt. What is your ip address?

192.168.0.7

2. What is the gateway ip address?

My gateway address:192.168.0.1

3. What are the DNS and DHCP servers?

DNS server:192.168.0.1

DHCP sever:106.51.115.154

```
Connection-specific DNS Suffix .:
Description . . . . . . . . . . Realtek RTL8723BE 802.11 bgn Wi-Fi Adapter
Physical Address. . . . . . . : CC-B0-DA-5D-94-E7
DHCP Enabled. . . . . . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . : fe80::c2d:beb6:f79c:5177%17(Preferred)
IPv4 Address. . . . . . . . . : 192.168.0.7(Preferred)
Subnet Mask . . . . . . . . . : 255.255.255.0
Lease Obtained. . . . . . . . : Wednesday, September 16, 2020 9:40:33 AM
Lease Expires . . . . . . . . : Wednesday, September 16, 2020 2:40:29 PM
Default Gateway . . . . . . . . : fe80::f68c:ebff:fea7:c6ab%17
                                  192.168.0.1
DHCP Server . . . . . . . . . : 192.168.0.1
DHCPv6 IAID . . . . . . . . : 147632346
DHCPv6 Client DUID. . . . . . . : 00-01-00-01-26-C2-A4-E7-98-E7-F4-D7-78-BD
DNS Servers . . . . . . . . . : 106.51.115.154
                                  106.51.115.144
NetBIOS over Tcpip. . . . . . : Enabled
```

4. Trace route for amrita.edu, amritavidya.edu, with VPN

```
C:\Users\gurus>tracert amrita.edu
Tracing route to amrita.edu [103.10.24.196]
over a maximum of 30 hops:
                          4 ms 192.168.0.1
4 ms 10.193.0.1
        2 ms
                  2 ms
       34 ms
                  3 ms
                         8 ms 106.51.40.153
5 ms 106.51.40.157
3 ms 14.141.24.193.static-hyderabad.tcl.net.in [14.141.24.193]
       4 ms
                 6 ms
        5 ms
                 6 ms
 5
        4 ms
                 6 ms
       31 ms
                 34 ms 25 ms 172.31.167.58
 7
8
                                  Request timed out.
                          42 ms 218.248.187.133
       44 ms
                 41 ms
       41 ms
                 41 ms
                          41 ms 117.193.162.45
 10
                                  Request timed out.
11
```

- 5. Trace the route for an outside domain
- 6. Is there any difference

nslookup

- 1. Type nslookup on command prompt
- 2. Type set type = MX (mail exchanger)
- 3. Give google.com
- 4. Observe the output
- 5. What do you observe?

6. Learn nslookup options and do an analysis