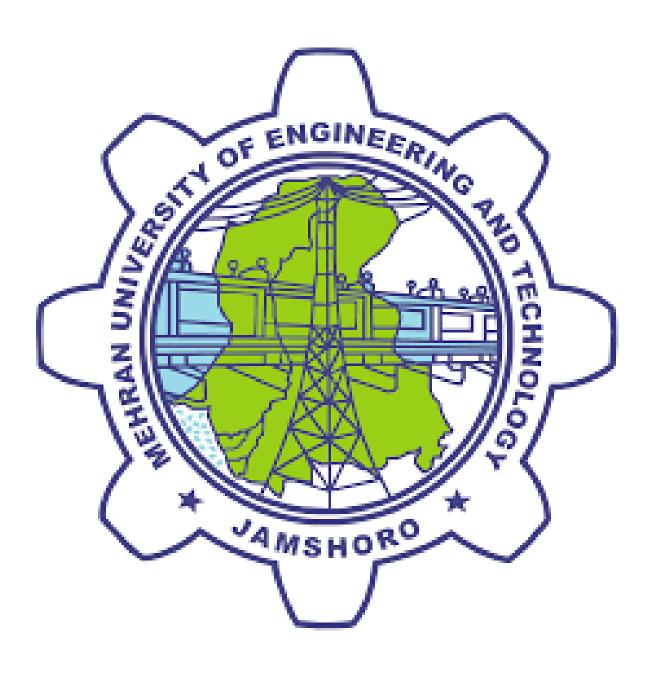
Name: ZOHAIB HASSAN SOOMRO

RollNo#: 19SW42

Subject: CN(pr)



Q1: Execute the above mentioned commands and display the outputs.

1. Ipconfig

```
C:\Users\Zohaib Hassan Soomro>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

Media State . . . . . . . . . . Media disconnected
Connection-specific DNS Suffix . : muet.edu.pk

Wireless LAN adapter Local Area Connection* 4:

Media State . . . . . . . . . Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Local Area Connection* 14:

Media State . . . . . . . . . . Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Wi-Fi:

Media State . . . . . . . . . . . . Media disconnected
Connection-specific DNS Suffix . :

Media State . . . . . . . . . . . . . . . . Media disconnected
Connection-specific DNS Suffix . :
```

a. lpconfig/displaydns:

2. Ping: PACKET INTERNET GOPHER:

```
C:\WINDOWS\system32>ping www.google.com
Pinging www.google.com [2a00:1450:4018:809::2004] with 32 bytes of data:
Reply from 2a00:1450:4018:809::2004: time=213ms
Reply from 2a00:1450:4018:809::2004: time=298ms
Reply from 2a00:1450:4018:809::2004: time=296ms
Reply from 2a00:1450:4018:809::2004: time=295ms

Ping statistics for 2a00:1450:4018:809::2004:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 295ms, Maximum = 313ms, Average = 300ms
C:\WINDOWS\system32>
```

3. Tracert:

```
C:\WINDOWS\system32>tracert www.google.com
Tracing route to www.google.com [2a00:1450:4018:809::2004]
over a maximum of 30 hops:
                               3 ms 2400:fc00:9bf:8013::1
3 ms 2400:fc00:9bf:8001::1
3 ms 2400:fc00:9bf:8000::1
          3 ms
                     4 ms
         6 ms
                    2 ms
          3 ms
                               3 ms 2400:fc00:8000:2a0::1
7 ms 2400:fc00:8000::305:2
        14 ms
                   26 ms
                               6 ms 2404:d400:4000:3::5
                    7 ms
                               6 ms 2404:d400:0:34::10
         7 ms
                  315 ms 326 ms 2001:4860:1:1::e8c
324 ms 319 ms 2001:4860:0:109a::1
       452 ms
       687 ms
                   319 ms
       454 ms
                              320 ms 2001:4860:0:1::3991
                              322 ms mct01s19-in-x04.1e100.net [2a00:1450:4018:809::2004]
       437 ms
                   328 ms
 Trace complete.
 :\WINDOWS\system32>
```

4. Arp-a:

```
C:\WINDOWS\system32>arp -a
Interface: 10.11.61.62 --- 0x13
 Internet Address Physical Address
                                               Type
                   28-a6-db-40-6c-fb
ff-ff-ff-ff-ff-ff
01-00-5e-00-00-02
                                               dynamic
  10.11.60.1
 10.11.63.255
                                               static
 224.0.0.2
224.0.0.22
                                               static
                      01-00-5e-00-00-16
                                               static
                      01-00-5e-00-00-fb
 224.0.0.251
                                               static
  224.0.0.252
                      01-00-5e-00-00-fc
                                               static
  239.255.255.250
                       01-00-5e-7f-ff-fa
                                               static
  255.255.255.255
                        ff-ff-ff-ff-ff
                                               static
 :\WINDOWS\system32>
```

Q2: Find and explain a network command that changes the ipaddress of your computer from your command prompt. Change the ipaddress and display the output.

Ans:

Netsh:

The netsh command allows us to configure just about any aspect of network connections in Windows e.g changing ip/dns settings etc. To work with it, we'll need to open Command Prompt with administrative privileges.

Step-1: Know the full name of network (for the interface we want to change):



Step-2: Change ip-address(to a static ip in our case), subnet mask and default gateway:

```
C:\WINDOWS\system32>netsh interface ipv4 set address name="Wi-Fi" static 192.168.1.8 255.255.255.0 192.168.1.1
C:\WINDOWS\system32>
```

After changing IP-address: