CNT Assignment 1

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Roll Number: 57   **Batch:** 3

1. ping command

```
C:\Users\Kuberkishore>ping google.com

Pinging google.com [142.250.192.142] with 32 bytes of data:
Reply from 142.250.192.142: bytes=32 time=10ms TTL=116
Reply from 142.250.192.142: bytes=32 time=17ms TTL=116
Reply from 142.250.192.142: bytes=32 time=19ms TTL=116
Reply from 142.250.192.142: bytes=32 time=20ms TTL=116

Ping statistics for 142.250.192.142:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 10ms, Maximum = 20ms, Average = 16ms
```

2. pathping command

```
C:\Users\Kuberkishore>pathping google.com

Tracing route to google.com [142.250.192.142]
over a maximum of 30 hops:
  0  Kuber [192.168.0.227]
  1  devicesetup.net [192.168.0.1]
  2  172.28.0.1
  3  172.16.0.254
  4  103.97.164.97
  5  static-149.37.107.27-tataidc.co.in [27.107.37.149]
  6  203.199.133.233
  7     *        *        *
Computing statistics for 150 seconds...
            Source to Here   This Node/Link
Hop  RTT    Lost/Sent = Pct  Lost/Sent = Pct  Address
  0                                            Kuber [192.168.0.227]
                              0/ 100 =  0%   |
  1  10ms     0/ 100 =  0%    0/ 100 =  0%  devicesetup.net [192.168.0.1]
                              0/ 100 =  0%   |
  2  10ms     0/ 100 =  0%    0/ 100 =  0%  172.28.0.1
                              0/ 100 =  0%   |
  3  10ms     1/ 100 =  1%    1/ 100 =  1%  172.16.0.254
                              0/ 100 =  0%   |
  4  11ms     2/ 100 =  2%    2/ 100 =  2%  103.97.164.97
                              0/ 100 =  0%   |
  5  15ms     0/ 100 =  0%    0/ 100 =  0%  static-149.37.107.27-tataidc.co.in [27.107.37.149]
                              0/ 100 =  0%   |
  6  18ms     0/ 100 =  0%    0/ 100 =  0%  203.199.133.233

Trace complete.
```

3. tracert command

```
C:\Users\Kuberkishore>tracert google.com

Tracing route to google.com [142.250.192.142]
over a maximum of 30 hops:

  1      9 ms      8 ms      8 ms  devicesetup.net [192.168.0.1]
  2      5 ms      8 ms      9 ms  172.28.0.1
  3      5 ms      9 ms      8 ms  172.16.0.254
  4     20 ms      9 ms      8 ms  103.97.164.97
  5      *         *         *     Request timed out.
  6     11 ms      8 ms      9 ms  203.199.133.233
  7      *         *         *     Request timed out.
  8     41 ms     28 ms     28 ms  14.141.123.226.static-Chennai.vsnl.net.in [14.141.123.226]
  9      *         *         *     Request timed out.
 10     26 ms     29 ms     28 ms  115.112.15.74.static-chennai.vsnl.net.in [115.112.15.74]
 11     31 ms     29 ms     29 ms  142.251.66.197
 12     30 ms     29 ms     29 ms  142.250.239.228
 13     29 ms     29 ms     28 ms  72.14.232.50
 14     47 ms     34 ms     36 ms  216.239.48.64
 15     37 ms     31 ms    116 ms  192.178.110.111
 16     34 ms     39 ms     37 ms  172.253.50.147
 17     28 ms     28 ms     28 ms  bom12s18-in-f14.1e100.net [142.250.192.142]

Trace complete.
```

4. ipconfig command

```
C:\Users\Kuberkishore>ipconfig

Windows IP Configuration


Wireless LAN adapter Local Area Connection* 1:

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

Wireless LAN adapter Local Area Connection* 2:

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

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::b894:d05:f21b:e691%11
   IPv4 Address. . . . . . . . . . . : 192.168.0.227
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.0.1

Ethernet adapter Bluetooth Network Connection:

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

5. arp command

```
C:\Users\Kuberkishore>arp -a

Interface: 192.168.0.227 --- 0xb
  Internet Address      Physical Address      Type
  192.168.0.1           bc-22-28-20-a1-ec     dynamic
  192.168.0.255         ff-ff-ff-ff-ff-ff     static
  224.0.0.22            01-00-5e-00-00-16     static
  224.0.0.251           01-00-5e-00-00-fb     static
  224.0.0.252           01-00-5e-00-00-fc     static
  255.255.255.255       ff-ff-ff-ff-ff-ff     static
```

6. netstat command

```
C:\Users\Kuberkishore>netstat

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    192.168.0.227:61731    4.213.25.240:https     ESTABLISHED
  TCP    192.168.0.227:61738    4.213.25.240:https     ESTABLISHED
```

7. nbtstat command

```
C:\Users\Kuberkishore>nbtstat -a google.com

Wi-Fi:
Node IpAddress: [192.168.0.227] Scope Id: []

    Host not found.

Local Area Connection* 1:
Node IpAddress: [0.0.0.0] Scope Id: []

    Host not found.

Bluetooth Network Connection:
Node IpAddress: [0.0.0.0] Scope Id: []

    Host not found.

Local Area Connection* 2:
Node IpAddress: [0.0.0.0] Scope Id: []

    Host not found.
```

8. nslookup command

```
C:\Users\Kuberkishore>nslookup google.com
Server:   devicesetup.net
Address:  192.168.0.1

Non-authoritative answer:
Name:      google.com
Addresses: 2404:6800:4009:805::200e
           142.250.70.110
```

9. route command

```
C:\Users\Kuberkishore>route print
===========================================================================
Interface List
  6...96 08 53 9e 61 2f ......Microsoft Wi-Fi Direct Virtual Adapter
  5...a6 08 53 9e 61 2f ......Microsoft Wi-Fi Direct Virtual Adapter #2
 11...94 08 53 9e 61 2f ......Qualcomm Atheros QCA61x4A Wireless Network Adapter
 16...94 08 53 9e 61 30 ......Bluetooth Device (Personal Area Network)
  1...........................Software Loopback Interface 1
===========================================================================

IPv4 Route Table
===========================================================================
Active Routes:
Network Destination        Netmask          Gateway       Interface  Metric
          0.0.0.0          0.0.0.0   10.207.141.200    10.207.141.29     35
     10.207.141.0    255.255.255.0         On-link     10.207.141.29    291
    10.207.141.29  255.255.255.255         On-link     10.207.141.29    291
   10.207.141.255  255.255.255.255         On-link     10.207.141.29    291
        127.0.0.0        255.0.0.0         On-link         127.0.0.1    331
        127.0.0.1  255.255.255.255         On-link         127.0.0.1    331
  127.255.255.255  255.255.255.255         On-link         127.0.0.1    331
        224.0.0.0        240.0.0.0         On-link         127.0.0.1    331
        224.0.0.0        240.0.0.0         On-link     10.207.141.29    291
  255.255.255.255  255.255.255.255         On-link         127.0.0.1    331
  255.255.255.255  255.255.255.255         On-link     10.207.141.29    291
===========================================================================
Persistent Routes:
  None

IPv6 Route Table
===========================================================================
Active Routes:
 If Metric Network Destination      Gateway
 11     51 ::/0                     fe80::5b:8bff:fe77:4972
  1    331 ::1/128                  On-link
 11     51 2409:40c2:1298:558d::/64 On-link
 11    291 2409:40c2:1298:558d:58e7:cb9d:88b4:734c/128
                                    On-link
 11    291 2409:40c2:1298:558d:7dfe:b104:6221:319a/128
                                    On-link
 11    291 fe80::/64                On-link
 11    291 fe80::b894:d05:f21b:e691/128
                                    On-link
  1    331 ff00::/8                 On-link
 11    291 ff00::/8                 On-link
===========================================================================
Persistent Routes:
  None
```

10. nmap command

```
C:\Users\Kuberkishore>nmap 192.168.0.103
Starting Nmap 7.97 ( https://nmap.org ) at 2025-07-23 18:51 +0530
Nmap scan report for 192.168.0.103
Host is up (0.00080s latency).
Not shown: 997 closed tcp ports (reset)
PORT    STATE SERVICE
135/tcp open  msrpc
139/tcp open  netbios-ssn
445/tcp open  microsoft-ds

Nmap done: 1 IP address (1 host up) scanned in 0.83 seconds
```