Experiment 8: Familiarization with basic Network Commands along with different configuration modes.

1. IP CONFIG

```
Command Prompt
Simplilearn >ipconfig
Windows IP Configuration
Wireless LAN adapter Local Area Connection* 3:
  Media State . . . . . . . . . . . . . Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Local Area Connection* 4:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix . :
Ethernet adapter Ethernet 2:
  Media State . . . . . . . . . . . . Media disconnected
  Connection-specific DNS Suffix . :
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix . :
  Link-local IPv6 Address . . . . : fe80::71d0:b52a:6e74:ca3a%9
  IPv4 Address. . . . . . . . . . : 192.168.1.4
```

2. NSLOOKUO

3. HOSTNAME

```
Simplilearn >hostname
LAPTOP-
Simplilearn >
```

4. PING

```
Simplilearn >ping www.google.com

Pinging www.google.com [142.250.194.4] with 32 bytes of data:
Reply from 142.250.194.4: bytes=32 time=26ms TTL=118
Reply from 142.250.194.4: bytes=32 time=27ms TTL=118
Reply from 142.250.194.4: bytes=32 time=26ms TTL=118
Reply from 142.250.194.4: bytes=32 time=27ms TTL=118
Ping statistics for 142.250.194.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 26ms, Maximum = 27ms, Average = 26ms

Simplilearn >

Simplilearn >
```

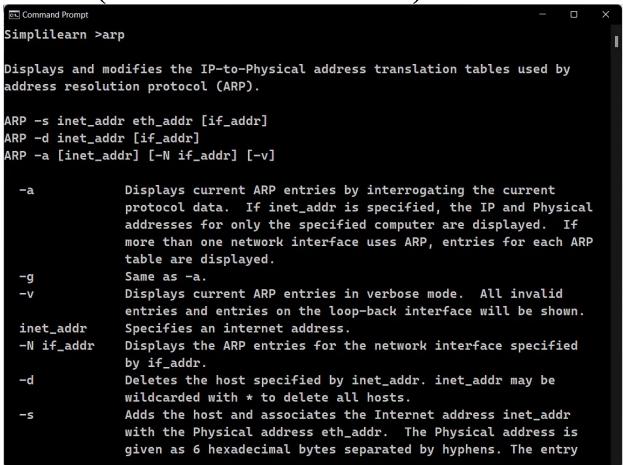
5. TRACERT

```
Simplilearn >tracert www.facebook.com
Tracing route to star-mini.cl0r.facebook.com [157.240.16.35]
over a maximum of 30 hops:
                1 ms
       1 ms
                         1 ms local.airtelfiber.com [192.168.1.1]
 1
      15 ms
                        22 ms abts-mh-dynamic-001.33.169.122.airtelbroadband.in [122.169.33.1]
 2
               12 ms
 3
       6 ms
                7 ms
                         7 ms nsg-corporate-45.78.186.122.airtel.in [122.186.78.45]
      48 ms
                        48 ms 116.119.104.148
               48 ms
 5
      55 ms
               55 ms
                        57 ms ae18.pr03.bom1.tfbnw.net [157.240.67.48]
 6
      46 ms
                        47 ms po103.psw02.bom1.tfbnw.net [157.240.53.69]
               47 ms
      54 ms
 7
               54 ms
                        54 ms 173.252.67.85
      42 ms
                        42 ms edge-star-mini-shv-01-bom1.facebook.com [157.240.16.35]
               41 ms
Trace complete.
Simplilearn >
```

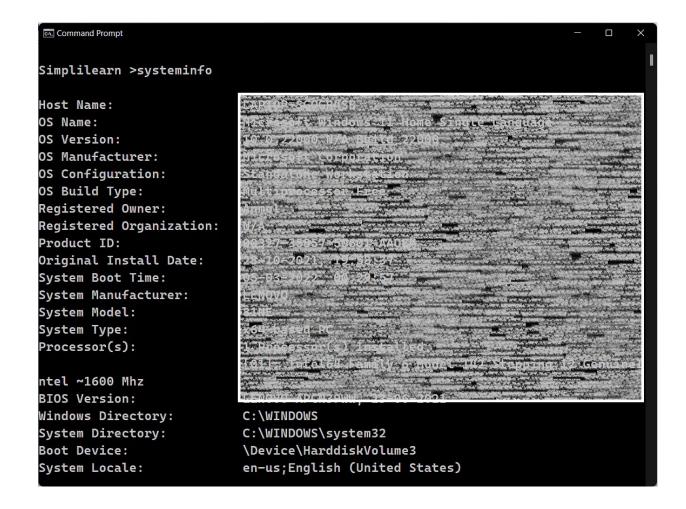
6. NETSTAT



7. ARP (Address Resolution Protocol)



8. SYSTEMINFO



Reference: https://www.simplilearn.com/tutorials/cyber-security-tutorial/understanding-the-networking-commands