1. ipconfig: Displays basic IP configuration address for network adapters

```
C:\Users\Softlaptop>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet:
  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* 2:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Wi-Fi:
   Connection-specific DNS Suffix .:
   Link-local IPv6 Address . . . . : fe80::39c3:e640:72dd:84a0%6
   IPv4 Address. . . . . . . . . : 192.168.1.4
   Subnet Mask . . . . . . . . . : 255.255.255.0
  Default Gateway . . . . . . : 192.168.1.1
Ethernet adapter Bluetooth Network Connection:
  Media State . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix .:
```

2. ipconfig /all: Shows detailed IP settings for all network adapters, including MAC-addresses.

```
C:\Users\Softlaptop>ipconfig/all
Windows IP Configuration
  Host Name . . . . . . . . . : DESKTOP-3Q1TDSR
  Primary Dns Suffix . . . . . . :
  Node Type . . . . . . . . . : Hybrid
  IP Routing Enabled. . . . . . : No
  WINS Proxy Enabled. . . . . . : No
Ethernet adapter Ethernet:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
  Description . . . . . . . . : Intel(R) Ethernet Connection (7) I
219-LM
  Physical Address. . . . . . . : E4-E7-49-40-3F-AD
  DHCP Enabled. . . . . . . : Yes
  Autoconfiguration Enabled . . . . : Yes
Wireless LAN adapter Local Area Connection* 1:
  Media State . . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
  Description . . . . . . . . . . . . Microsoft Wi-Fi Direct Virtual Ada
bter
  Physical Address. . . . . . . : F4-D1-08-9D-23-D1
  DHCP Enabled. . . . . . . . . : Yes
  Autoconfiguration Enabled . . . . : Yes
Wireless LAN adapter Local Area Connection* 2:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
  Description . . . . . . . . . . Microsoft Wi-Fi Direct Virtual Ada
pter #2
  Physical Address. . . . . . . : F6-D1-08-9D-23-D0
  DHCP Enabled. . . . . . . . . . . . . No
  Autoconfiguration Enabled . . . . : Yes
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix .:
  Description . . . . . . . . : Intel(R) Wireless-AC 9560 160MHz
  Physical Address. . . . . . . : F4-D1-08-9D-23-D0
  DHCP Enabled. . . . . . . . . : Yes
  Autoconfiguration Enabled . . . . : Yes
  Link-local IPv6 Address . . . . : fe80::39c3:e640:72dd:84a0%6(Prefer
 ed)
```

3. getmac /v: Displays the MAC addresses of network devices with detailed output.

4. nslookup google.com: Queries the DNS to get the IP address of google domain

4. ipconfig /release: Releases the current IP address assigned to my device by DHCP.

```
C:\Users\Softlaptop>ipconfig/release
Windows IP Configuration
No operation can be performed on Ethernet while it has its media disconnected.
No operation can be performed on Local Area Connection* 1 while it has its media disconnect
No operation can be performed on Bluetooth Network Connection while it has its media discon
nected.
Ethernet adapter Ethernet:
  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* 2:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . . : fe80::39c3:e640:72dd:84a0%6
  Default Gateway . . . . . . . :
Ethernet adapter Bluetooth Network Connection:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
C:\Users\Softlaptop>
```

6. ipconfig /renew: Requests a new IP address from the DHCP server for my device:

```
C:\Users\Softlaptop>ipconfig/renew
Windows IP Configuration
No operation can be performed on Ethernet while it has its media disconnected.
No operation can be performed on Local Area Connection* 1 while it has its media disconnect
ed.
No operation can be performed on Local Area Connection* 2 while it has its media disconnect
ed.
No operation can be performed on Bluetooth Network Connection while it has its media discon
nected.
Ethernet adapter Ethernet:
  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* 2:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . . : fe80::39c3:e640:72dd:84a0%6
  IPv4 Address. . . . . . . . . : 192.168.1.4
  Subnet Mask . . . . . . . . . : 255.255.255.0
  Default Gateway . . . . . . . : 192.168.1.1
Ethernet adapter Bluetooth Network Connection:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
```