Ex.no:1A Date:25/07/2024

Roll no: 231901004

AIM:

Study of various Network commands used in Windows.

BASIC COMMANDS:

• nslookup: (name server lookup) is a tool used to perform DNS lookups in Linux. It is used to display DNS details, such as the IP address of a particular computer, the MX records for a domain or the NS servers of a domain. nslookup can operate in two modes: interactive and non-interactive.

Syntax: nslookup www.google.com

```
C:\Users\hp>nslookup
Default Server: Unknown
Address: 192.168.0.1
>
```

ipconfig /all: This command displays detailed configuration information about your TCP/IP connection including Router, Gateway, DNS, DHCP, and type of Ethernet adapter in your system

Syntax: ipconfig

ping:(Packet INternet Groper) command is the best way to test connectivity between two nodes. Ping use ICMP (Internet Control Message Protocol) to communicate to other devices.

#ping hostname(ping localhost)

#ping ip address (ping 4.2.2.2)

#ping_fully qualified domain name(ping www.facebook.com

Syntax: ping www.google.com

```
> C:\Users\hp>ping www.google.com

Pinging www.google.com [142.250.195.228] with 32 bytes of data:
Reply from 142.250.195.228: bytes=32 time=7ms TTL=119
Reply from 142.250.195.228: bytes=32 time=6ms TTL=119
Reply from 142.250.195.228: bytes=32 time=8ms TTL=119
Reply from 142.250.195.228: bytes=32 time=7ms TTL=119
Ping statistics for 142.250.195.228:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 6ms, Maximum = 8ms, Average = 7ms

C:\Users\hp>
```

hostname:

This is the simplest of all TCP/IP commands. It simply displays the name of your computer.

Syntax: hostname

C:\Users\hp>hostname DESKTOP-P89CACM

❖ Route: route command is used to show/manipulate the IP routing table. It is primarily used to setup static routes to specific host or networks via an interface

Syntax: tracert www.google.com

❖ arp - a:ARP is short form of address resolution protocol, It will show the IP address of your computer along with the IP address and MAC address of your router.

Syntax: arp

netstat: (network statistics) netstat displays a variety of statistics about a computers active TCP/IP connections. It is a command line tool for monitoring network connections both incoming and outgoing as well as viewing routing tables, interface statistics etc.

Syntax: netstat-r

RESULT:

Thus, the various basic windows commands were studied.