BASIC COMMANDS IN WINDOWS/LINUX OPERATING SYSTEM.

Aim:

To study the various network command used in windows operating system.

Commands:

1. arp-a

arp (address resolution Protocol) will shows the IP address of device along with the mac address.

O/p : Interface - 172.16.50.231 --- 0X8

Internet Address	Physical Address	Type
172.16.50.1	7c-5a-1c-cf-be-3e	dynamic
172.16.50.7	3c-52-91-10-55-47	dynamic

2. HostName

hostname is used to display the names of the devices

O/p : DESKTOP - 27MC9V2

3. ipconfig :

ipconfig display the configuration of TCP/IP connection.

O/p : Windows IP configuration
Ethernet Adapter Ethernet

connection specific DNS Suffix :
IPV4 Address 172.16.50.231
Subnet Mask 255.255.255.0

4. nslookup

nsloop (name server lookup) used for DNS lookup.

O/p: Default server : unknown

Address : 172.16.50 1

> google . corn

Server : unknown

Address : 172.16.50 1

Non - authorised answer

Name : google . corn

Address : 2404 : 6800 : 4001 : 815 : 2009

142. 250. 183.174

6. Pathping :

Pathping is basically used for network troubleshoot that complies the function of ping / tracert . It gives the report of each router.

O/p : Usage : pathping [-ghost - list] [-h maximum hops]
[-4] [-6] target-name.

7. Ping :

ping (packet Internet Grouper) used to test the connectivity between two node.

O/P :
> ping google . corn

ping attribute for 142 . 250. 183.174
packets : sent = 4 , received = 4 , lost = 0 (0 % loss)

Approximate round trip times in milli-seconds
Mininuum = 3ms, Max = 4ms, average = 2ms .

8. Route Print - 4

Route is used to display the IP-routing table its like a roadmap to define the IP range, destination, netmask , gateway .

O/P : IPV4 Route table
Active route

Network	Destination	Gateway	Addressing	Metric
127.0.0.0	255.0.0.0		on-link	127.0.0.1

Persistent Route:

Network Address	Netmask	Gateway Address	Metric
0.0.0.0	0.0.0.0	192.16.50.1	Default

Result:

Thus the basic command in windows/linux operating system was studied.