## Aim:

Using TraceRoute, ping, ifconfig(LINUX), ipconfig(WINDOWS), and netstat

## Command.

## **Procedure:**

Step 1: open windows command prompt and Type tracert command and type tracert

www.saveetha.com -> "Enter"

```
::\Users\arunk>tracert saveetha.com
Tracing route to saveetha.com [118.139.175.1]
over a maximum of 30 hops:
               6 ms 124 ms 172.18.48.1
      71 ms
             4 ms 7 ms 172.22.3.1

21 ms 22 ms 172.22.7.2

106 ms 27 ms ptpl-as56272-rev-241.121.235.180-chn.pulse.in [180.235.121.241]

* 79 ms 61.95.248.189
      17 ms
      46 ms
      56 ms
      311 ms
      84 ms 93 ms 65 ms 182.79.224.183
 8
 10
11
12
15
16
18
19
20
21
22
24
25
26
27
28
 29
30
                                Request timed out.
Trace complete.
```

Step 2: Type ping command and type IP Address press "Enter"

```
C:\Users\arunk>ping 172.18.48.1

Pinging 172.18.48.1 with 32 bytes of data:
Reply from 172.18.48.1: bytes=32 time=451ms TTL=255
Reply from 172.18.48.1: bytes=32 time=673ms TTL=255
Reply from 172.18.48.1: bytes=32 time=697ms TTL=255
Reply from 172.18.48.1: bytes=32 time=43ms TTL=255
Ping statistics for 172.18.48.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 43ms, Maximum = 697ms, Average = 466ms
```

Step 3: Type if config command

```
C:\Users\arunk>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet 2:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Ethernet adapter VirtualBox Host-Only Network:
  Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . . : fe80::6daf:97be:be9b:4228%18
  IPv4 Address. . . . . . . . . : 192.168.56.1
  Subnet Mask . . . . . . . . . : 255.255.255.0
  Default Gateway . . . . . . . :
Wireless LAN adapter Local Area Connection* 1:
  Media State . . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Local Area Connection* 2:
  Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . . : fe80::21c0:28ca:7558:9457%3
  IPv4 Address. . . . . . . . . : 192.168.137.1
  Subnet Mask . . . . . . . . . : 255.255.255.0
  Default Gateway . . . . . . . :
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix . : saveetha.net
  Link-local IPv6 Address . . . . : fe80::21ae:a837:878c:5c91%4
  IPv4 Address. . . . . . . . . . : 172.18.49.214
  Subnet Mask . . . . . . . . . : 255.255.240.0
  Default Gateway . . . . . . . : 172.18.48.1
```

Step 4: Type netstat command

```
C:\Users\arunk>netstat
Active Connections
 Proto Local Address
                            Foreign Address
                                                State
       127.0.0.1:22350
                            LAPTOP-LIH20JNS:49696 ESTABLISHED
 TCP
 TCP
       127.0.0.1:49696
                            LAPTOP-LIH20JNS:22350 ESTABLISHED
 TCP
       127.0.0.1:49697
                            LAPTOP-LIH20JNS:49698 ESTABLISHED
 TCP
       127.0.0.1:49698
                            LAPTOP-LIH20JNS:49697 ESTABLISHED
 TCP
       127.0.0.1:49699
                            LAPTOP-LIH20JNS:49701 ESTABLISHED
       127.0.0.1:49701
 TCP
                            LAPTOP-LIH20JNS:49699
                                                ESTABLISHED
 TCP
                            LAPTOP-LIH20JNS:58275 ESTABLISHED
       127.0.0.1:58274
                           LAPTOP-LIH20JNS:58274 ESTABLISHED
 TCP
       127.0.0.1:58275
 TCP
       172.18.49.214:52080
                           172.18.49.214:52461
                            sl-in-f188:https
 TCP
                                                ESTABLISHED
 TCP
       172.18.49.214:52462
                            20.198.119.143:https ESTABLISHED
       TCP
 TCP
       [fe80::21ae:a837:878c:5c91%4]:5357
                                       saveetha:49530
       [fe80::21ae:a837:878c:5c91%4]:5357 XEROX-PC-PC:49602
 TCP
                                                            ESTABLISHED
 TCP
       [fe80::21ae:a837:878c:5c91%4]:5357
                                       [fe80::70c9:f7a9:2c9d:8bfe%4]:51860 ESTABLISHED
 TCP
       [fe80::21ae:a837:878c:5c91%4]:5357 DESKTOP-QK535R0:51734 LAST ACK
       [fe80::21ae:a837:878c:5c91%4]:5357 DESKTOP-U3LILBH:52305 ESTABLISHED
 TCP
```

## Result

Hence the Traceroute, ping, ipconfig (LINUX), ipconfig(WINDOWS) and netstat command executed successfully.

