# Exercise No 8: TraceRoute, ping, ifconfig, ipconfig, netstat

# 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
                 17 ms
                                           4 ms 7 ms 172.22.3.1
                 46 ms
                                          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
                 56 ms
                311 ms
                                       93 ms 65 ms 182.79.224.183

* * Request timed out.

* Request timed out.
                 84 ms 93 ms 65 ms 182.79.224.183
    8
  10
  12
 16
  17
 18
 19
 20
 26
 28
                                                                                      Request timed out.
                                                                                      Request timed out.
  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

```
:\Users\arunk>netstat
Active Connections
 Proto Local Address
                               Foreign Address
                                                      State
                               LAPTOP-LIH20JNS:49696 ESTABLISHED
        127.0.0.1:22350
 TCP
                               LAPTOP-LIH20JNS:22350 ESTABLISHED
        127.0.0.1:49696
 TCP
                               LAPTOP-LIH20JNS:49698 ESTABLISHED
        127.0.0.1:49697
 TCP
        127.0.0.1:49698
                               LAPTOP-LIH20JNS:49697 ESTABLISHED
 TCP
        127.0.0.1:49699
                               LAPTOP-LIH20JNS:49701 ESTABLISHED
 TCP
        127.0.0.1:49701
                               LAPTOP-LIH20JNS:49699 ESTABLISHED
 TCP
        127.0.0.1:58274
                               LAPTOP-LIH20JNS:58275 ESTABLISHED
 TCP
         127.0.0.1:58275
                               LAPTOP-LIH20JNS:58274 ESTABLISHED
        172.18.49.214:52080
                               whatsapp-cdn-shv-02-maa2:https ESTABLISHED
 TCP
        172.18.49.214:52461
                               sl-in-f188:https
                                                      ESTABLISHED
 TCP
        172.18.49.214:52462
                               20.198.119.143:https ESTABLISHED
        [fe80::21ae:a837:878c:5c91%4]:5357 DESKTOP-K2T7LL4:50671 SYN_RECEIVED
 TCP
 TCP
         [fe80::21ae:a837:878c:5c91%4]:5357 saveetha:49530
                                                                   LAST_ACK
         [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
         [fe80::21ae:a837:878c:5c91%4]:5357 DESKTOP-QK535R0:51734 LAST_ACK
 TCP
         [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.

