

PRACTICAL 02

2. With help of ping, check if you are connected to other systems of your network and find the route to connect to that system using tracert. List all the processes which are using ports for TCP protocol.

OUTPUT:

Using command ping

```
Windows PowerShell
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PS C:\Users\sanjh\Documents\BSC_3RDYEAR\IT> ping www.google.com

Pinging www.google.com [2404:6800:4002:82e::2004] with 32 bytes of data:
Reply from 2404:6800:4002:82e::2004: time=20ms
Reply from 2404:6800:4002:82e::2004: time=20ms
Reply from 2404:6800:4002:82e::2004: time=21ms
Reply from 2404:6800:4002:82e::2004: time=20ms

Ping statistics for 2404:6800:4002:82e::2004:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 20ms, Maximum = 21ms, Average = 20ms
```

Using command tracert

```
PS C:\Users\sanjh\Documents\BSC_3RDYEAR\IT> tracert www.google.com

Tracing route to www.google.com [2404:6800:4002:82e::2004]
over a maximum of 30 hops:

  1  12 ms    2 ms     1 ms    2405:201:6808:801a:f2ed:b8ff:fe71:aaa7
  2  *         *         *        Request timed out.
  3  19 ms    14 ms    100 ms   2405:200:801:1700::1
  4  *         *         *        Request timed out.
  5  27 ms    17 ms    17 ms    2001:4860:1:1::1a34
  6  17 ms    14 ms    46 ms    2404:6800:804a::1
  7  19 ms    14 ms    15 ms    2001:4860:0:1::14c
  8  17 ms    16 ms    14 ms    2001:4860:0:1::5e45
  9  15 ms    24 ms    15 ms    del12s10-in-x04.1e100.net [2404:6800:4002:82e::2004]

Trace complete.
```

Using command netstat -a -p

```
PS C:\Users\sanjhi\Documents\BSC_3RDYEAR\IT> netstat -a -p tcp
```

Active Connections

Proto	Local Address	Foreign Address	State
TCP	0.0.0.0:135	LAPTOP-5F61EA1F:0	LISTENING
TCP	0.0.0.0:445	LAPTOP-5F61EA1F:0	LISTENING
TCP	0.0.0.0:3306	LAPTOP-5F61EA1F:0	LISTENING
TCP	0.0.0.0:5040	LAPTOP-5F61EA1F:0	LISTENING
TCP	0.0.0.0:9095	LAPTOP-5F61EA1F:0	LISTENING
TCP	0.0.0.0:33060	LAPTOP-5F61EA1F:0	LISTENING
TCP	0.0.0.0:49664	LAPTOP-5F61EA1F:0	LISTENING
TCP	0.0.0.0:49665	LAPTOP-5F61EA1F:0	LISTENING
TCP	0.0.0.0:49666	LAPTOP-5F61EA1F:0	LISTENING
TCP	0.0.0.0:49667	LAPTOP-5F61EA1F:0	LISTENING
TCP	0.0.0.0:49671	LAPTOP-5F61EA1F:0	LISTENING
TCP	0.0.0.0:49673	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:2015	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:9093	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:9222	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:15292	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:15393	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:16494	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:17400	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:45623	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:49676	LAPTOP-5F61EA1F:49677	ESTABLISHED
TCP	127.0.0.1:49677	LAPTOP-5F61EA1F:49676	ESTABLISHED
TCP	127.0.0.1:49678	LAPTOP-5F61EA1F:49679	ESTABLISHED
TCP	127.0.0.1:49679	LAPTOP-5F61EA1F:49678	ESTABLISHED
TCP	127.0.0.1:50023	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:50023	LAPTOP-5F61EA1F:50025	ESTABLISHED
TCP	127.0.0.1:50025	LAPTOP-5F61EA1F:50023	ESTABLISHED
TCP	127.0.0.1:50100	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:50877	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:50877	LAPTOP-5F61EA1F:56520	ESTABLISHED
TCP	127.0.0.1:50877	LAPTOP-5F61EA1F:56529	ESTABLISHED
TCP	127.0.0.1:50878	LAPTOP-5F61EA1F:0	LISTENING
TCP	127.0.0.1:50878	LAPTOP-5F61EA1F:56345	ESTABLISHED
TCP	127.0.0.1:56281	LAPTOP-5F61EA1F:0	LISTENING

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TCP      127.0.0.1:56306      LAPTOP-5F61EA1F:0      LISTENING
TCP      127.0.0.1:56345      LAPTOP-5F61EA1F:50878  ESTABLISHED
TCP      127.0.0.1:56520      LAPTOP-5F61EA1F:50877  ESTABLISHED
TCP      127.0.0.1:56529      LAPTOP-5F61EA1F:50877  ESTABLISHED
TCP      192.168.29.48:139     LAPTOP-5F61EA1F:0      LISTENING
TCP      192.168.29.48:49458   20.198.119.84:https     ESTABLISHED
TCP      192.168.29.48:54182   104.40.53.219:https     CLOSE_WAIT
TCP      192.168.29.48:55518   91.108.56.174:https     ESTABLISHED
TCP      192.168.29.48:55552   ec2-35-174-127-31:https  ESTABLISHED
TCP      192.168.29.48:55809   ec2-54-199-107-1:https  ESTABLISHED
TCP      192.168.29.48:56322   ec2-3-248-26-100:https  TIME_WAIT
TCP      192.168.29.48:56352   ec2-52-22-119-135:https  ESTABLISHED
TCP      192.168.29.48:56425   91.108.56.174:https     ESTABLISHED
TCP      192.168.29.48:56426   91.108.56.174:https     ESTABLISHED
TCP      192.168.29.48:56427   91.108.56.174:https     ESTABLISHED
TCP      192.168.29.48:56428   91.108.56.174:https     ESTABLISHED
TCP      192.168.29.48:56429   91.108.56.174:https     ESTABLISHED
TCP      192.168.29.48:56430   91.108.56.174:https     ESTABLISHED
TCP      192.168.29.48:56431   91.108.56.174:https     ESTABLISHED
TCP      192.168.29.48:56439   server-108-158-245-56:https TIME_WAIT
TCP      192.168.29.48:56441   152.195.38.76:http      TIME_WAIT
TCP      192.168.29.48:56447   103.180.115.6:https     TIME_WAIT
TCP      192.168.29.48:56449   52.109.124.28:https     ESTABLISHED
TCP      192.168.29.48:56451   52.109.56.91:https      ESTABLISHED
TCP      192.168.29.48:56453   52.109.56.126:https     ESTABLISHED
TCP      192.168.29.48:56454   103.180.115.6:https     TIME_WAIT
TCP      192.168.29.48:56469   103.180.115.6:https     TIME_WAIT
TCP      192.168.29.48:56480   49.44.131.214:https     ESTABLISHED
TCP      192.168.29.48:56516   whatsapp-cdn-shv-02-ccu1:https ESTABLISHED
TCP      192.168.29.48:56519   103.180.115.6:https     TIME_WAIT
TCP      192.168.29.48:56523   bom12s19-in-f2:https    TIME_WAIT
TCP      192.168.29.48:56525   del11s16-in-f6:https    TIME_WAIT
TCP      192.168.29.48:56527   del11s16-in-f6:https    TIME_WAIT
TCP      192.168.29.48:56528   del11s16-in-f6:https    TIME_WAIT
TCP      192.168.29.48:56530   bom07s33-in-f2:https    TIME_WAIT
TCP      192.168.29.48:56531   bom07s33-in-f2:https    TIME_WAIT
TCP      192.168.29.48:56532   bom07s33-in-f2:https    TIME_WAIT
TCP      192.168.29.48:56534   bom07s33-in-f2:https    ESTABLISHED
TCP      192.168.29.48:56536   del11s16-in-f6:https    ESTABLISHED
```

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