Packet Tracer - Verify IPv4 and IPv6 Addressing

ipconfig: for both IPv6 and IPv4.

```
C:\>ipconfig
FastEthernet0 Connection:(default port)
  Connection-specific DNS Suffix..:
  Link-local IPv6 Address.....: FE80::260:47FF:FECA:4DEE
  IPv6 Address...... 2001:DB8:1:1::A
  IPv4 Address..... 10.10.1.100
  Subnet Mask...... 255.255.255.224
  Default Gateway..... FE80::1
                            10.10.1.97
Bluetooth Connection:
  Connection-specific DNS Suffix..:
  Link-local IPv6 Address....: ::
  IPv6 Address....: ::
  IPv4 Address..... 0.0.0.0
  Subnet Mask..... 0.0.0.0
  Default Gateway....: ::
                            0.0.0.0
```

ipv6config

ipv6config /all

```
C:\>ipv6config /all
FastEthernet0 Connection:(default port)
  Connection-specific DNS Suffix..:
  Physical Address..... 0060.47CA.4DEE
  Link-local IPv6 Address...... FE80::260:47FF:FECA:4DEE
  IPv6 Address..... 2001:DB8:1:1::A
  Default Gateway..... FE80::1
  DNS Servers....: ::
  DHCPv6 IAID.....:
  DHCPv6 Client DUID..........: 00-01-00-01-16-28-EE-50-00-60-47-CA-4D-EE
Bluetooth Connection:
  Connection-specific DNS Suffix..:
  Physical Address...... 0007.ECE0.556B
  Link-local IPv6 Address....: ::
  IPv6 Address..... ::
  Default Gateway....:::
  DNS Servers.....: ::
  DHCPv6 IAID.....:
  DHCPv6 Client DUID....... 00-01-00-01-16-28-EE-50-00-60-47-CA-4D-EE
```

ping 2001:DB8:1:4::A

```
C:\>ping 2001:DB8:1:4::A

Pinging 2001:DB8:1:4::A with 32 bytes of data:

Reply from 2001:DB8:1:4::A: bytes=32 time=13ms TTL=125
Reply from 2001:DB8:1:4::A: bytes=32 time=19ms TTL=125
Reply from 2001:DB8:1:4::A: bytes=32 time=17ms TTL=125
Reply from 2001:DB8:1:4::A: bytes=32 time=2ms TTL=125

Ping statistics for 2001:DB8:1:4::A:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 19ms, Average = 12ms
```

tracert 10.10.1.20: trace all routes to a destination.

```
C:\>tracert 10.10.1.20
Tracing route to 10.10.1.20 over a maximum of 30 hops:
    0 ms
             0 ms
                      0 ms
                               10.10.1.97
 2 0 ms
            0 ms
                     0 ms
                             10.10.1.5
                     12 ms
 3
    10 ms 0 ms
                              10.10.1.10
     0 ms
             0 ms
                               10.10.1.20
                      0 ms
Trace complete.
```

tracert 2001:DB8:1:4::A

```
C:\>tracert 2001:DB8:1:4::A
Tracing route to 2001:DB8:1:4::A over a maximum of 30 hops:
     0 ms
               0 ms
                        0 ms
                                 2001:DB8:1:1::1
               4 ms 4 ms
16 ms 9 ms
                                 2001:DB8:1:2::1
 2 7 ms
     0 ms
                                2001:DB8:1:3::2
 3
     5 ms
               9 ms
                        1 ms
                                  2001:DB8:1:4::A
Trace complete.
```