Q1. Try Test-Connection and nslookup commands for below websites:

- www.google.com
- www.facebook.com
- www.amazon.com
- www.github.com
- www.cisco.com

## www.google.com

```
nekita-shri@nekita-shri-VirtualBox:~$ ping -c 4 www.google.com
PING www.google.com (142.250.195.68) 56(84) bytes of data.
64 bytes from maa03s38-in-f4.1e100.net (142.250.195.68): icmp_seq=1 ttl=255 time=52.9 ms
64 bytes from maa03s38-in-f4.1e100.net (142.250.195.68): icmp_seq=2 ttl=255 time=46.2 ms
64 bytes from maa03s38-in-f4.1e100.net (142.250.195.68): icmp_seq=3 ttl=255 time=40.9 ms
64 bytes from maa03s38-in-f4.1e100.net (142.250.195.68): icmp_seq=4 ttl=255 time=34.8 ms

--- www.google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 4933ms
rtt min/avg/max/mdev = 34.846/43.718/52.885/6.654 ms
nekita-shri@nekita-shri-VirtualBox:~$ nslookup www.google.com
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
Name:   www.google.com
Address: 142.250.196.4
Name:   www.google.com
Address: 2404:6800:4007:819::2004

nekita-shri@nekita-shri-VirtualBox:~$
```
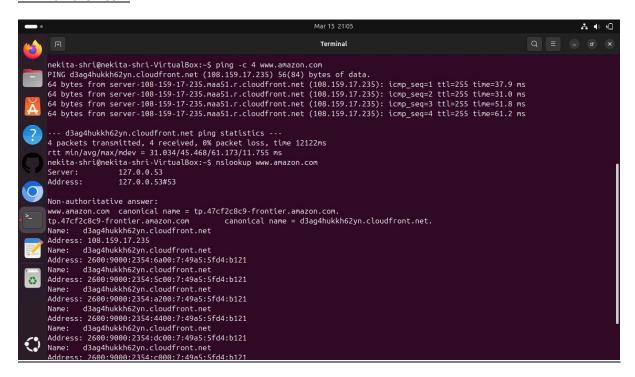
## www.facebook.com

```
nekita-shri@nekita-shri-VirtualBox:~$ ping -c 4 www.facebook.com
PING star-mini.c10r.facebook.com (163.70.139.35) 56(84) bytes of data.
64 bytes from edge-star-mini-shv-02-tir3.facebook.com (163.70.139.35): icmp_seq=1 ttl=255 time=52.5 ms
64 bytes from edge-star-mini-shv-02-tir3.facebook.com (163.70.139.35): icmp_seq=2 ttl=255 time=29.2 ms
64 bytes from edge-star-mini-shv-02-tir3.facebook.com (163.70.139.35): icmp_seq=3 ttl=255 time=31.8 ms
64 bytes from edge-star-mini-shv-02-tir3.facebook.com (163.70.139.35): icmp_seq=4 ttl=255 time=48.2 ms

--- star-mini.c10r.facebook.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3021ms
rtt min/avg/max/mdev = 29.156/40.412/52.501/10.091 ms
nekita-shri@nekita-shri-VirtualBox:~$ nslookup www.facebook.com
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
www.facebook.com        canonical name = star-mini.c10r.facebook.com.
Name:   star-mini.c10r.facebook.com
Address: 163.70.139.35
Name:   star-mini.c10r.facebook.com
Address: 2a03:2880:f137:182:face:b00c:0:25de
```

www.amazon.com



```
nekita-shri@nekita-shri-VirtualBox:~$ ping -c 4 www.amazon.com
PING d3ag4hukkh62yn.cloudfront.net (108.159.17.235) 56(84) bytes of data.
64 bytes from server-108-159-17-235.maa51.r.cloudfront.net (108.159.17.235): icmp_seq=1 ttl=255 time=37.9 ms
64 bytes from server-108-159-17-235.maa51.r.cloudfront.net (108.159.17.235): icmp_seq=2 ttl=255 time=31.0 ms
64 bytes from server-108-159-17-235.maa51.r.cloudfront.net (108.159.17.235): icmp_seq=3 ttl=255 time=51.8 ms
64 bytes from server-108-159-17-235.maa51.r.cloudfront.net (108.159.17.235): icmp_seq=4 ttl=255 time=61.2 ms

--- d3ag4hukkh62yn.cloudfront.net ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 12122ms
rtt min/avg/max/mdev = 31.034/45.468/61.173/11.755 ms
nekita-shri@nekita-shri-VirtualBox:~$ nslookup www.amazon.com
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
www.amazon.com  canonical name = tp.47cf2c8c9-frontier.amazon.com.
tp.47cf2c8c9-frontier.amazon.com        canonical name = d3ag4hukkh62yn.cloudfront.net.
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 108.159.17.235
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:2354:6a00:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:2354:5c00:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:2354:a200:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:2354:4400:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:2354:dc00:7:49a5:5fd4:b121
Name:   d3ag4hukkh62yn.cloudfront.net
Address: 2600:9000:2354:c000:7:49a5:5fd4:b121
```

www.github.com



```
nekita-shri@nekita-shri-VirtualBox:~$ ping -c 4 www.github.com
PING github.com (20.207.73.82) 56(84) bytes of data.
64 bytes from 20.207.73.82: icmp_seq=1 ttl=255 time=70.1 ms
64 bytes from 20.207.73.82: icmp_seq=2 ttl=255 time=61.8 ms
64 bytes from 20.207.73.82: icmp_seq=3 ttl=255 time=63.0 ms
64 bytes from 20.207.73.82: icmp_seq=4 ttl=255 time=43.4 ms

--- github.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 4265ms
rtt min/avg/max/mdev = 43.385/59.586/70.145/9.880 ms
nekita-shri@nekita-shri-VirtualBox:~$ nslookup www,github.com
Server:         127.0.0.53
Address:        127.0.0.53#53

** server can't find www,github.com: NXDOMAIN

nekita-shri@nekita-shri-VirtualBox:~$ ping -c 4 www.cisco.com
PING e2867.dsca.akamaiedge.net (23.209.254.61) 56(84) bytes of data.
64 bytes from a23-209-254-61.deploy.static.akamaitechnologies.com (23.209.254.61): icmp_seq=1 ttl=255 time=36.7 ms
64 bytes from a23-209-254-61.deploy.static.akamaitechnologies.com (23.209.254.61): icmp_seq=2 ttl=255 time=35.5 ms
64 bytes from a23-209-254-61.deploy.static.akamaitechnologies.com (23.209.254.61): icmp_seq=3 ttl=255 time=52.9 ms
64 bytes from a23-209-254-61.deploy.static.akamaitechnologies.com (23.209.254.61): icmp_seq=4 ttl=255 time=52.4 ms

--- e2867.dsca.akamaiedge.net ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 7788ms
rtt min/avg/max/mdev = 35.532/44.393/52.915/8.274 ms
nekita-shri@nekita-shri-VirtualBox:~$ nslookup www.cisco.com
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
```

[www.cisco.com](www.cisco.com)

```
nekita-shri@nekita-shri-VirtualBox:~$ ping -c 4 www.cisco.com
PING e2867.dsca.akamaiedge.net (23.209.254.61) 56(84) bytes of data.
64 bytes from a23-209-254-61.deploy.static.akamaitechnologies.com (23.209.254.61): icmp_seq=1 ttl=255 time=36.7 ms
64 bytes from a23-209-254-61.deploy.static.akamaitechnologies.com (23.209.254.61): icmp_seq=2 ttl=255 time=35.5 ms
64 bytes from a23-209-254-61.deploy.static.akamaitechnologies.com (23.209.254.61): icmp_seq=3 ttl=255 time=52.9 ms
64 bytes from a23-209-254-61.deploy.static.akamaitechnologies.com (23.209.254.61): icmp_seq=4 ttl=255 time=52.4 ms

--- e2867.dsca.akamaiedge.net ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 7788ms
rtt min/avg/max/mdev = 35.532/44.393/52.915/8.274 ms
nekita-shri@nekita-shri-VirtualBox:~$ nslookup www.cisco.com
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
www.cisco.com   canonical name = www.cisco.com.akadns.net.
www.cisco.com.akadns.net        canonical name = wwwds.cisco.com.edgekey.net.
wwwds.cisco.com.edgekey.net     canonical name = wwwds.cisco.com.edgekey.net.globalredir.akadns.net.
wwwds.cisco.com.edgekey.net.globalredir.akadns.net      canonical name = e2867.dsca.akamaiedge.net.
Name:   e2867.dsca.akamaiedge.net
Address: 23.209.254.61
Name:   e2867.dsca.akamaiedge.net
Address: 2600:140f:9800:19f::b33
Name:   e2867.dsca.akamaiedge.net
Address: 2600:140f:9800:1a1::b33
```