Name: Devansh Srivastava
Registration number: 21BCE0527

Network Training Programme

Module 7 and 8

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

```
C:\Users\LENOVO>ping google.com

Pinging google.com [142.250.193.238] with 32 bytes of data:
Reply from 142.250.193.238: bytes=32 time=33ms TTL=113
Reply from 142.250.193.238: bytes=32 time=47ms TTL=113
Reply from 142.250.193.238: bytes=32 time=35ms TTL=113
Reply from 142.250.193.238: bytes=32 time=39ms TTL=113

Ping statistics for 142.250.193.238:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 33ms, Maximum = 47ms, Average = 38ms

C:\Users\LENOVO>nslookup google.com
Server:  UnKnown
Address:  192.168.218.158

Non-authoritative answer:
Name:    google.com
Addresses:  2404:6800:4002:81f::200e
          142.250.193.238
```

www.facebook.com

```
C:\Users\LENOVO>ping facebook.com

Pinging facebook.com [163.70.146.35] with 32 bytes of data:
Reply from 163.70.146.35: bytes=32 time=41ms TTL=51
Reply from 163.70.146.35: bytes=32 time=47ms TTL=51
Reply from 163.70.146.35: bytes=32 time=47ms TTL=51
Reply from 163.70.146.35: bytes=32 time=38ms TTL=51

Ping statistics for 163.70.146.35:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 38ms, Maximum = 47ms, Average = 43ms

C:\Users\LENOVO>nslookup facebook.com
Server:  UnKnown
Address:  192.168.218.158

Non-authoritative answer:
Name:    facebook.com
Addresses:  2a03:2880:f349:1:face:b00c:0:25de
            163.70.146.35


C:\Users\LENOVO>
```

www.amazon.com

```
C:\Users\LENOVO>ping amazon.com

Pinging amazon.com [54.239.28.85] with 32 bytes of data:
Reply from 54.239.28.85: bytes=32 time=261ms TTL=236
Reply from 54.239.28.85: bytes=32 time=382ms TTL=236
Reply from 54.239.28.85: bytes=32 time=319ms TTL=236
Reply from 54.239.28.85: bytes=32 time=262ms TTL=236

Ping statistics for 54.239.28.85:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 261ms, Maximum = 382ms, Average = 306ms

C:\Users\LENOVO>nslookup amazon.com
Server:  UnKnown
Address:  192.168.218.158

Non-authoritative answer:
Name:    amazon.com
Addresses:  52.94.236.248
            205.251.242.103
            54.239.28.85


C:\Users\LENOVO>
```

www.github.com

```
C:\Users\LENOVO>ping github.com

Pinging github.com [20.207.73.82] with 32 bytes of data:
Reply from 20.207.73.82: bytes=32 time=45ms TTL=113
Reply from 20.207.73.82: bytes=32 time=64ms TTL=113
Reply from 20.207.73.82: bytes=32 time=69ms TTL=113
Reply from 20.207.73.82: bytes=32 time=75ms TTL=113

Ping statistics for 20.207.73.82:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 45ms, Maximum = 75ms, Average = 63ms

C:\Users\LENOVO>nslookup github.com
Server:  UnKnown
Address:  192.168.218.158

Non-authoritative answer:
Name:    github.com
Address:  20.207.73.82
```

www.cisco.com

```
C:\Users\LENOVO>ping cisco.com

Pinging cisco.com [72.163.4.185] with 32 bytes of data:
Reply from 72.163.4.185: bytes=32 time=319ms TTL=42
Reply from 72.163.4.185: bytes=32 time=305ms TTL=42
Reply from 72.163.4.185: bytes=32 time=331ms TTL=42
Reply from 72.163.4.185: bytes=32 time=441ms TTL=42

Ping statistics for 72.163.4.185:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 305ms, Maximum = 441ms, Average = 349ms

C:\Users\LENOVO>nslookup cisco.com
Server:  UnKnown
Address:  192.168.218.158

Non-authoritative answer:
Name:    cisco.com
Addresses:  2001:420:1101:1::185
          72.163.4.185


C:\Users\LENOVO>
```

Key Learning:

1. Test-Connection and ping command is used to check network connectivity.

2. nslookup command retrieves IP address and DNS server details.

3. Packet loss or high latency indicates that there may be some network issues.