

Name: J Kevin Immanuel

College: VIT Chennai

Q1) Test-Connection and nslookup

```
Windows PowerShell
PS C:\Users\kimma> Test-Connection google.com
```

Source	Destination	IPv4Address	IPv6Address	Bytes	Time(ms)
DESKTOP-CR...	google.com	216.58.196.174	2404:6800:4007:812::200e	32	2
DESKTOP-CR...	google.com	216.58.196.174	2404:6800:4007:812::200e	32	2
DESKTOP-CR...	google.com	216.58.196.174	2404:6800:4007:812::200e	32	2
DESKTOP-CR...	google.com	216.58.196.174	2404:6800:4007:812::200e	32	2

```
PS C:\Users\kimma> Test-Connection facebook.com
```

Source	Destination	IPv4Address	IPv6Address	Bytes	Time(ms)
DESKTOP-CR...	facebook.com	157.240.192.35	2a03:2880:f137:182:face:b00c:0:25de	32	1
DESKTOP-CR...	facebook.com	157.240.192.35	2a03:2880:f137:182:face:b00c:0:25de	32	2
DESKTOP-CR...	facebook.com	157.240.192.35	2a03:2880:f137:182:face:b00c:0:25de	32	2
DESKTOP-CR...	facebook.com	157.240.192.35	2a03:2880:f137:182:face:b00c:0:25de	32	2

```
PS C:\Users\kimma> |
```

```
Windows PowerShell
PS C:\Users\kimma> Test-Connection www.amazon.com
```

Source	Destination	IPv4Address	IPv6Address	Bytes	Time(ms)
DESKTOP-CR...	www.amazon.com	18.67.156.60	2600:9000:2241:2200:7:49a5:5fd4:b121	32	2
DESKTOP-CR...	www.amazon.com	18.67.156.60	2600:9000:2241:2200:7:49a5:5fd4:b121	32	2
DESKTOP-CR...	www.amazon.com	18.67.156.60	2600:9000:2241:2200:7:49a5:5fd4:b121	32	2
DESKTOP-CR...	www.amazon.com	18.67.156.60	2600:9000:2241:2200:7:49a5:5fd4:b121	32	1

```
PS C:\Users\kimma> Test-Connection www.github.com
```

Source	Destination	IPv4Address	IPv6Address	Bytes	Time(ms)
DESKTOP-CR...	www.github.com	20.207.73.82		32	28
DESKTOP-CR...	www.github.com	20.207.73.82		32	28
DESKTOP-CR...	www.github.com	20.207.73.82		32	28
DESKTOP-CR...	www.github.com	20.207.73.82		32	28

```
PS C:\Users\kimma> Test-Connection www.cisco.com
```

Source	Destination	IPv4Address	IPv6Address	Bytes	Time(ms)
DESKTOP-CR...	www.cisco.com	23.209.254.61	2600:140f:3:f93:b33	32	3
DESKTOP-CR...	www.cisco.com	23.209.254.61	2600:140f:3:f93:b33	32	1
DESKTOP-CR...	www.cisco.com	23.209.254.61	2600:140f:3:f93:b33	32	1
DESKTOP-CR...	www.cisco.com	23.209.254.61	2600:140f:3:f93:b33	32	2

Nslookup:

```
Windows PowerShell
PS C:\Users\kimma> nslookup www.google.com
Server: UnKnown
Address: 2406:7400:b0:b::2

Non-authoritative answer:
Name: www.google.com
Addresses: 2404:6800:4007:81a::2004
          142.250.182.36

PS C:\Users\kimma> nslookup www.amazon.com
Server: UnKnown
Address: 2406:7400:b0:b::2

Non-authoritative answer:
Name: e15316.dsca.akamaiedge.net
Addresses: 2600:140f:3:fa8::3bd4
          2600:140f:3:f9a::3bd4
          2600:140f:3:f93::3bd4
          2600:140f:3:fa7::3bd4
          2600:140f:3:f92::3bd4
          23.210.77.132
Aliases: www.amazon.com
          tp.47cf2c8c9-frontier.amazon.com
          www.amazon.com.edgekey.net

PS C:\Users\kimma> |
```

```
Windows PowerShell
Address: 2406:7400:b0:b::2

Non-authoritative answer:
Name: star-mini.c10r.facebook.com
Addresses: 2a03:2880:f137:182:face:b00c:0:25de
          157.240.192.35
Aliases: www.facebook.com

PS C:\Users\kimma> nslookup www.github.com
Server: UnKnown
Address: 2406:7400:b0:b::2

Non-authoritative answer:
Name: github.com
Address: 20.207.73.82
Aliases: www.github.com

PS C:\Users\kimma> nslookup www.cisco.com
Server: UnKnown
Address: 2406:7400:b0:b::2

Non-authoritative answer:
Name: e2867.dsca.akamaiedge.net
Addresses: 2600:140f:6:1a1::b33
          2600:140f:6:18a::b33
          23.209.254.61
Aliases: www.cisco.com
          www.cisco.com.akadns.net
          wwwds.cisco.com.edgekey.net
          wwwds.cisco.com.edgekey.net.globalredir.akadns.net
```

Test-Connection:

This command is similar to ping. This command sends ICMP packets to the IP address/server specified, and gives back information about the IPv4 and IPv6 address.

Nslookup:

This command gives a DNS information and IP information about the address specified.

For example: nslookup www.google.com gives us the IP information

```
PS C:\Users\kimma> nslookup 8.8.8.8
Server: UnKnown
Address: 2406:7400:b0:b::2

Name: dns.google
Address: 8.8.8.8

PS C:\Users\kimma> |
```

The above gives us information about the domain name that is associated with the address.