

Name: Sathwik S Hegde
USN: 4MT19CS138.

1) Pick 5 websites, find its IP address, give the class of IP address it belongs to.

1.

Website: facebook.com

IP address: 157.240.16.35

Class: B

```
C:\Users\Sathwik S Hegde>nslookup facebook.com
Server: pfsense.mitecloud.org
Address: 192.168.1.2

Non-authoritative answer:
Name: facebook.com
Addresses: 2a03:2880:f12f:183:face:b00c:0:25de
          157.240.16.35
```

2.

Website: google.com

IP address: 172.217.31.206

Class: B

```
C:\Users\Sathwik S Hegde>nslookup google.com
Server: pfsense.mitecloud.org
Address: 192.168.1.2

Non-authoritative answer:
Name: google.com
Addresses: 2404:6800:4007:809::200e
          172.217.31.206
```

3.

Website: netflix.com

IP address: 54.73.148.110

Class: A

```
C:\Users\Sathwik S Hegde>nslookup netflix.com
Server: pfsense.mitecloud.org
Address: 192.168.1.2

Non-authoritative answer:
Name: netflix.com
Addresses: 2a05:d018:76c:b684:b233:ac1f:be1f:7
          2a05:d018:76c:b685:c898:aa3a:42c7:9d21
          2a05:d018:76c:b683:e1fe:9fbf:c403:57f1
          18.200.8.190
          54.155.246.232
          54.73.148.110
```

4.

Website: dlithe.com

IP address: 217.21.91.85

Class: C

```
C:\Users\Sathwik S Hegde>nslookup dlithe.com
Server: pfsense.mitecloud.org
Address: 192.168.1.2
```

Non-authoritative answer:

```
Name: dlithe.com
Addresses: 2a02:4780:11:888:0:11af:a3af:1
          217.21.91.85
```

5.

Website: amazon.in

IP address: 52.95.116.115

Class: A

```
C:\Users\Sathwik S Hegde>nslookup amazon.in
Server: pfsense.mitecloud.org
Address: 192.168.1.2
```

Non-authoritative answer:

```
Name: amazon.in
Addresses: 52.95.120.67
          54.239.33.92
          52.95.116.115
```

2) Check your laptop's IP address and sub-net mask,define the network portion and host portion.

```
Command Prompt
C:\Users\Sathwik S Hegde>ipconfig

Windows IP Configuration

Ethernet adapter Ethernet:

    Connection-specific DNS Suffix  . : 192.168.1.12
    Link-local IPv6 Address . . . . . : fe80::a011:4796:8d23:fb64%14
    IPv4 Address. . . . . : 192.168.16.102
    Subnet Mask . . . . . : 255.255.0.0
    Default Gateway . . . . . : 192.168.1.2

Ethernet adapter Ethernet 3:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::d0e5:7d86:6af6:7733%24
    IPv4 Address. . . . . : 192.168.56.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :

Wireless LAN adapter Local Area Connection* 3:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 1:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::98e1:3737:6afa:f29b%13
    IPv4 Address. . . . . : 192.168.137.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :

Wireless LAN adapter Wi-Fi:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

C:\Users\Sathwik S Hegde>
```

IP address of the laptop: 192.168.16.102
Subnet Mask: 255.255.0.0

Network portion: 192.168.16
Host portion: 102