

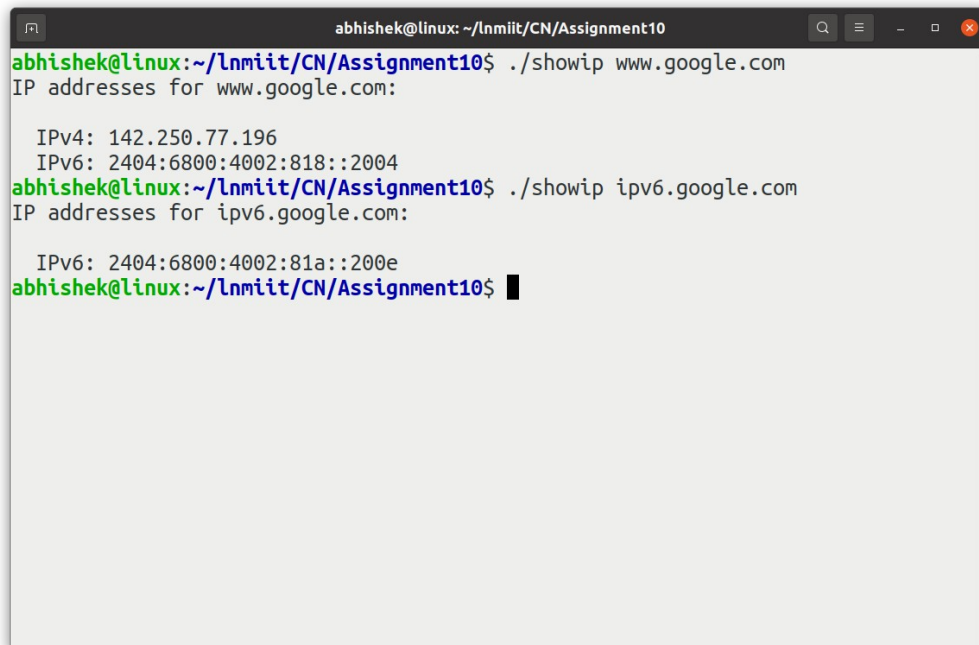
Computer Networks

Assignment 10

**2020-21
Even Semester**

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Lab Batch: C4**

Result#1 (Before Deletion)

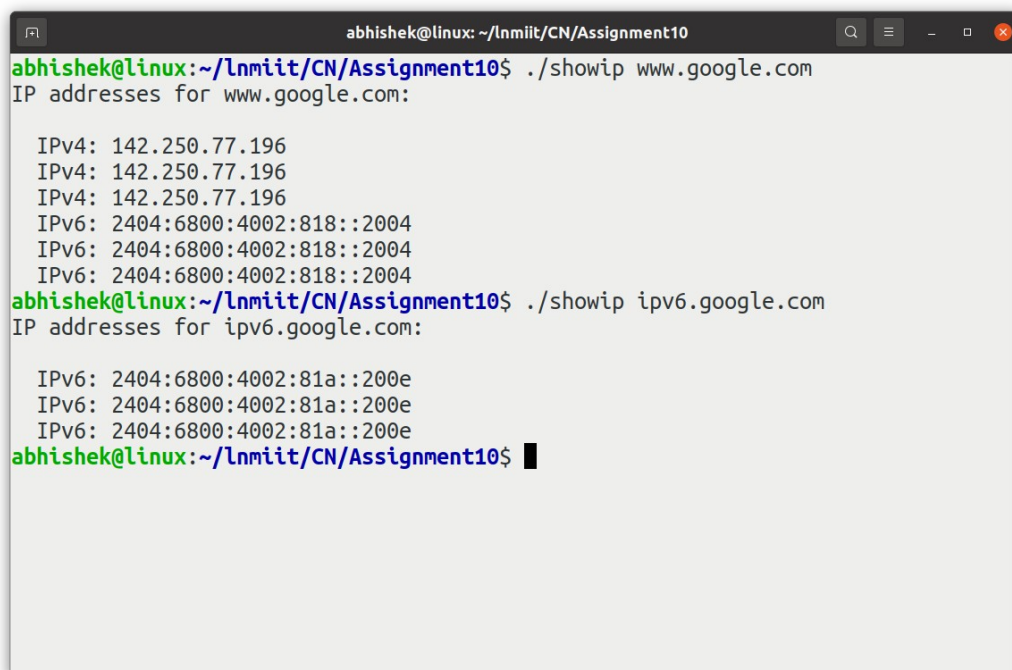


```
abhishek@linux: ~/lnmiit/CN/Assignment10
abhishek@linux:~/lnmiit/CN/Assignment10$ ./showip www.google.com
IP addresses for www.google.com:

IPv4: 142.250.77.196
IPv6: 2404:6800:4002:818::2004
abhishek@linux:~/lnmiit/CN/Assignment10$ ./showip ipv6.google.com
IP addresses for ipv6.google.com:

IPv6: 2404:6800:4002:81a::200e
abhishek@linux:~/lnmiit/CN/Assignment10$
```

Result#2 (After Deletion)



```
abhishek@linux: ~/lnmiit/CN/Assignment10
abhishek@linux:~/lnmiit/CN/Assignment10$ ./showip www.google.com
IP addresses for www.google.com:

IPv4: 142.250.77.196
IPv4: 142.250.77.196
IPv4: 142.250.77.196
IPv6: 2404:6800:4002:818::2004
IPv6: 2404:6800:4002:818::2004
IPv6: 2404:6800:4002:818::2004
abhishek@linux:~/lnmiit/CN/Assignment10$ ./showip ipv6.google.com
IP addresses for ipv6.google.com:

IPv6: 2404:6800:4002:81a::200e
IPv6: 2404:6800:4002:81a::200e
IPv6: 2404:6800:4002:81a::200e
abhishek@linux:~/lnmiit/CN/Assignment10$
```

Q. How and why does it impact your program?

Ans.

After removing the given lines, `getaddrinfo()` returning more `addrinfo` structures. It is because the linked list may have more than one `addrinfo` structure, includes that the network host is multihomed, accessible over multiple protocols or the same service is available from multiple socket types i.e. `SOCK_STREAM` address or another `SOCK_DGRAM` address. In other words since we have deleted ``hints.ai_socktype = SOCK_STREAM``. Now it is showing the IP address for datagram socket, stream socket and Raw socket.