COMPUTER NETWORKING LAB-1

AIM:

1ST- HOSTNAME

```
Microsoft Windows [Version 10.0.19044.1526]
(c) Microsoft Corporation. All rights reserved.
C:\Users\student>hostname
DESKTOP-HJ13MH2
C:\Users\student>
```

2ND- IP CONFIGURATION

3RD- IP CONFIGURATION/ALL

```
:\Users\student>ipconfig/all
Windows IP Configuration
  Host Name . .
                   . . . . . . . : DESKTOP-HJ13MH2
  Primary Dns Suffix . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled . . . . . No
  WINS Proxy Enabled. . . . . . : No
Ethernet adapter Npcap Loopback Adapter:
  Connection-specific DNS Suffix .:
  Description . . . . . . . : Npcap Loopback Adapter Physical Address . . . . . : 02-00-4C-4F-4F-50
  fec0:0:0:ffff::3%1
  NetBIOS over Tcpip. . . . . . : Enabled
Ethernet adapter Ethernet:
  Connection-specific DNS Suffix .:
  Description . . . . . . . . . . . . . . Qualcomm Atheros AR8152 PCI-E Fast Ethernet Controller (NDIS 6.30)
  Physical Address. . . . . . . : 7C-05-07-26-6B-EB
  DHCP Enabled. . . . . . . . . . . . . . . No
Autoconfiguration Enabled . . . : Yes
Link-local IPv6 Address . . . . : fe80::a438:e73a:357b:bd94%15(Preferred)
 IPv4 Address. . . .
                                  : 192.168.6.4(Preferred)
  Subnet Mask . . . . . . . . . : 255.255.0.0
  Default Gateway . . . . . . . : fe80::38c0:46ec:e29a:1752%15
                                    192.168.1.251
  DNS Servers . . . . . . . . . : 192.168.1.251
                                    8.8.8.8
  NetBIOS over Tcpip. . . . . . : Enabled
```

4TH- NSLOOKUP

> wwww.facebook.com Server: UnKnown Address: 192.168.1.251 Non-authoritative answer: Name: star.c10r.facebook.com Addresses: 2a03:2880:f044:12:face:b00c:0:2 157.240.198.17 Aliases: wwww.facebook.com star.facebook.com > www.instagram.com Server: UnKnown Address: 192.168.1.251 Non-authoritative answer: z-p42-instagram.c10r.instagram.com Addresses: 2a03:2880:f244:e0:face:b00c:0:4420 157.240.198.174 Aliases: www.instagram.com geo-p42.instagram.com

```
C:\Users\student>tracert www.facebook.com
Tracing route to star-mini.c10r.facebook.com [157.240.198.35]
over a maximum of 30 hops:
                   <1 ms
                               <1 ms 192.168.1.251
        <1 ms
                              1 ms 103.101.119.65
1 ms 103.42.88.9
8 ms 10.250.250.33
         1 ms
                    1 ms
         1 ms
                    8 ms
        15 ms
                               3 ms ae11.pr03.del1.tfbnw.net [157.240.76.246]
         3 ms
                    4 ms
                              <1 ms po103.psw02.del1.tfbnw.net [74.119.78.135]
1 ms 173.252.67.99
<1 ms edge-star-mini-shv-01-del1.facebook.com [157.240.198.35]</pre>
         1 ms
                    1 ms
         1 ms
                    1 ms
  8
        <1 ms
                    <1 ms
Trace complete.
```

6[™]-PING

```
C:\Users\student>ping www.facebook.com

Pinging star-mini.c10r.facebook.com [157.240.198.35] with 32 bytes of data:
Reply from 157.240.198.35: bytes=32 time<1ms TTL=57
Reply from 157.240.198.35: bytes=32 time<1ms TTL=57
Reply from 157.240.198.35: bytes=32 time=1ms TTL=57
Reply from 157.240.198.35: bytes=32 time=4ms TTL=57

Ping statistics for 157.240.198.35:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 4ms, Average = 1ms
```

7TH-NETSTAT

```
:\Users\student>netstat
Active Connections
         Local Address
 Proto
                                 Foreign Address
                                                         State
 TCP
         192.168.6.4:52047
                                 lb-140-82-113-25-iad:https ESTABLISHED
 TCP
                                 sa-in-f188:5228
         192.168.6.4:52054
                                                         ESTABLISHED
 TCP
         192.168.6.4:58303
                                 dns:domain
                                                         TIME WAIT
                                                         TIME WAIT
 TCP
                                 del11s16-in-f10:https
         192.168.6.4:58304
 TCP
         192.168.6.4:58305
                                 del11s17-in-f14:https
                                                         TIME WAIT
 TCP
         192.168.6.4:58306
                                 del11s16-in-f10:https
                                                         TIME WAIT
 TCP
         192.168.6.4:58307
                                 si-in-f189:https
                                                         TIME WAIT
                                 del12s08-in-f10:https
 TCP
         192.168.6.4:58308
                                                         TIME WAIT
 TCP
         192.168.6.4:58309
                                 del12s02-in-f5:https
                                                         TIME WAIT
 TCP
         192.168.6.4:58310
                                 del11s13-in-f14:https
                                                         TIME WAIT
 TCP
         192.168.6.4:58311
                                 del03s07-in-f3:https
                                                         TIME WAIT
 TCP
         192.168.6.4:58314
                                 52.137.103.96:https
                                                         ESTABLISHED
 TCP
         192.168.6.4:58315
                                 20.197.71.89:https
                                                         ESTABLISHED
 TCP
         192.168.6.4:58320
                                 dns:https
                                                         TIME WAIT
 TCP
         192.168.6.4:58321
                                 del12s05-in-f14:https
                                                         TIME WAIT
 TCP
         192.168.6.4:58323
                                                         TIME WAIT
                                 27:https
 TCP
         192.168.6.4:58324
                                 del12s02-in-f5:https
                                                         TIME WAIT
 TCP
                                 del12s02-in-f5:https
                                                         TIME WAIT
         192.168.6.4:58326
 TCP
         192.168.6.4:58327
                                 13.107.246.37:https
                                                         ESTABLISHED
 TCP
         192.168.6.4:58328
                                 52.113.196.254:https
                                                         ESTABLISHED
 TCP
         192.168.6.4:58329
                                 13.107.4.254:https
                                                         ESTABLISHED
 TCP
         192.168.6.4:58330
                                 204.79.197.222:https
                                                         ESTABLISHED
 TCP
         192.168.6.4:58332
                                 dns:https
                                                         TIME WAIT
 TCP
         192.168.6.4:58333
                                 27:https
                                                         TIME WAIT
 TCP
         192.168.6.4:58334
                                 del03s07-in-f3:https
                                                         TIME WAIT
 TCP
         192.168.6.4:58335
                                 fra15s46-in-f3:https
                                                         TIME WAIT
 TCP
                                 fra15s46-in-f3:https
         192.168.6.4:58336
                                                         TIME WAIT
 TCP
         192.168.6.4:58337
                                 dns:https
                                                         ESTABLISHED
 TCP
                                 192.168.1.251:domain
         192.168.6.4:61209
                                                         TIME WAIT
 TCP
         192.168.6.4:64122
                                 dns:https
                                                         TIME WAIT
 TCP
         192.168.6.4:64125
                                 dns:https
                                                         TIME WAIT
         192.168.6.4:64126
 TCP
                                 del03s13-in-f3:https
                                                         TIME WAIT
 TCP
         192.168.6.4:64127
                                 del11s16-in-f10:https
                                                         TIME WAIT
 TCP
         [::1]:1521
                                 DESKTOP-HJ13MH2:50263
                                                         ESTABLISHED
  TCP
         [::1]:50263
                                 DESKTOP-HJ13MH2:1521
                                                         ESTABLISHED
```

8TH-NETINFO

C:\Users\student>netinfo

'netinfo' is not recognized as an internal or external command, operable program or batch file.

9TH-SYSTEM INFO

```
Host Name:
                              DESKTOP-HJ13MH2
OS Name:
                              Microsoft Windows 10 Pro
OS Version:
                              10.0.19044 N/A Build 19044
OS Manufacturer:
                              Microsoft Corporation
OS Configuration:
                              Standalone Workstation
OS Build Type:
Registered Owner:
                              Multiprocessor Free
                             Windows User
Registered Organization:
Product ID:
                              00331-20000-00000-AA660
Original Install Date:
                              9/22/2021, 9:57:08 AM
System Boot Time:
                              2/17/2022, 3:42:57 PM
System Manufacturer:
                              Hewlett-Packard
                              p2-1275il
System Model:
                              x64-based PC
System Type:
                              1 Processor(s) Installed.
[01]: Intel64 Family 6 Model 58 Stepping 9 GenuineIntel ~1600 Mhz
Processor(s):
BIOS Version:
                              AMI 7.13, 3/4/2013
Windows Directory:
                              C:\WINDOWS
System Directory:
                              C:\WINDOWS\system32
Boot Device:
                              \Device\HarddiskVolume1
System Locale:
                              en-us; English (United States)
Input Locale:
                              en-us; English (United States)
                              (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi
Time Zone:
Total Physical Memory:
                              3,985 MB
Available Physical Memory: 1,005 MB
Virtual Memory: Max Size: 6,128 MB
Virtual Memory: Available: 1,999 MB
Virtual Memory: In Use:
                             4,129 MB
Page File Location(s):
                              C:\pagefile.sys
Domain:
                              WORKGROUP
Logon Server:
                              \\DESKTOP-HJ13MH2
Hotfix(s):
                              11 Hotfix(s) Installed.
                              [01]: KB5009467
                               02]: KB4562830
                               03]: KB4570334
                               04]: KB4580325
                               05]: KB4586864
                               06]: KB5003791
                               07]: KB5010342
                               08]: KB5006753
                              [09]: KB5007273
                           091: KB5007273
                          [10]: KB5011352
                          [11]: KB5005699
Network Card(s):
                          2 NIC(s) Installed.
                          [01]: Qualcomm Atheros AR8152 PCI-E Fast Ethernet Controller (NDIS 6.30)
                               Connection Name: Ethernet
                               DHCP Enabled:
                               IP address(es)
                               [01]: 192.168.6.4
                                [02]: fe80::a438:e73a:357b:bd94
                          [02]: Microsoft KM-TEST Loopback Adapter
                               Connection Name: Npcap Loopback Adapter
                               DHCP Enabled:
                                               Yes
                               DHCP Server:
                                                255.255.255.255
                               IP address(es)
                               [01]: 169.254.239.92
                               [02]: fe80::2888:c64f:fc72:ef5c
                          VM Monitor Mode Extensions: Yes
Hyper-V Requirements:
                         Virtualization Enabled In Firmware: No
                          Second Level Address Translation: Yes
                         Data Execution Prevention Available: Yes
```