EX.NO :1

PROGRAM:

Ipconfig

```
C:\Users\HP PROBOOK>ipconfig

Windows IP Configuration


Ethernet adapter Ethernet:

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

Wireless LAN adapter Local Area Connection* 1:

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

Wireless LAN adapter Local Area Connection* 2:

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

Ethernet adapter VMware Network Adapter VMnet1:

   Connection-specific DNS Suffix   . :
   Link-local IPv6 Address . . . . . : fe80::5fd9:10b7:f180:c9a9%4
   IPv4 Address. . . . . . . . . . . : 192.168.174.1
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :
```

netstat

```
Ethernet adapter VMware Network Adapter VMnet1:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::5fd9:10b7:f180:c9a9%4
   IPv4 Address. . . . . . . . . . . : 192.168.174.1
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :

Ethernet adapter VMware Network Adapter VMnet8:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::d615:485:8242:84a9%9
   IPv4 Address. . . . . . . . . . . : 192.168.159.1
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . :

Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::6990:82dd:c631:1ac6%12
   IPv4 Address. . . . . . . . . . . : 10.10.5.4
   Subnet Mask . . . . . . . . . . . : 255.255.224.0
   Default Gateway . . . . . . . . . : 10.10.1.1
```

tcpdump:

```
usel:~ # tcpdump -i eth0
cpdump: verbose output suppressed, use -v or -vv for full protocol decode
istening on eth0, link-type EN1OMB (Ethernet), capture size 96 bytes
0:39:28.014065 IP 192.168.198.1.netbios-ns > 192.168.198.255.netbios-ns: NBT U
P PACKET(137): QUERY; REQUEST; BROADCAST
0:39:28.014840 IP 192.168.198.128.56851 > 192.168.198.2.domain: 18867+ PTR? 25
.198.168.192.in-addr.arpa. (46)
0:39:28.027418 IP 192.168.198.1.49733 > 224.0.0.252.llmnr: UDP, length 22
0:39:28.027850 IP 192.168.198.128.50611 > lhr14s24-in-f19.1e100.net.https: P 2
12329209:2912329246(37) ack 1375935787 win 18760
0:39:28.034322 IP lhr14s24-in-f19.1e100.net.https > 192.168.198.128.50611: . a
k 37 win 64240
0:39:28.037196 IP6 fe80::2cfe:5154:6c0d:fafd.65460 > ff02::1:3.llmnr: UDP, len
th 22
0:39:28.039057 IP 192.168.198.1.65460 > 224.0.0.252.llmnr: UDP, length 22
0:39:28.051576 IP 192.168.198.2.domain > 192.168.198.128.56851: 18867 NXDomain
0/1/0 (95)
0:39:28.051744 IP 192.168.198.128.35496 > 192.168.198.2.domain: 58919+ PTR? 1.
98.168.192.in-addr.arpa. (44)
0:39:28.077704 IP 192.168.198.2.domain > 192.168.198.128.35496: 58919 NXDomain
0/1/0 (93)
0:39:28.077903 IP 192.168.198.128.56215 > 192.168.198.2.domain: 59223+ PTR? 2.
98.168.192.in-addr.arpa. (44)
0:39:28.103262 IP 192.168.198.2.domain > 192.168.198.128.56215: 59223 NXDomain
0/1/0 (93)
```

nslookup:

```
usel:~ # tcpdump -i eth0
cpdump: verbose output suppressed, use -v or -vv for full protocol decode
istening on eth0, link-type EN1OMB (Ethernet), capture size 96 bytes
0:39:28.014065 IP 192.168.198.1.netbios-ns > 192.168.198.255.netbios-ns: NBT U
P PACKET(137): QUERY; REQUEST; BROADCAST
0:39:28.014840 IP 192.168.198.128.56851 > 192.168.198.2.domain: 18867+ PTR? 25
.198.168.192.in-addr.arpa. (46)
0:39:28.027418 IP 192.168.198.1.49733 > 224.0.0.252.llmnr: UDP, length 22
0:39:28.027850 IP 192.168.198.128.50611 > lhr14s24-in-f19.1e100.net.https: P 2
12329209:2912329246(37) ack 1375935787 win 18760
0:39:28.034322 IP lhr14s24-in-f19.1e100.net.https > 192.168.198.128.50611: . a
k 37 win 64240
0:39:28.037196 IP6 fe80::2cfe:5154:6c0d:fafd.65460 > ff02::1:3.llmnr: UDP, len
th 22
0:39:28.039057 IP 192.168.198.1.65460 > 224.0.0.252.llmnr: UDP, length 22
0:39:28.051576 IP 192.168.198.2.domain > 192.168.198.128.56851: 18867 NXDomain
0/1/0 (95)
0:39:28.051744 IP 192.168.198.128.35496 > 192.168.198.2.domain: 58919+ PTR? 1.
98.168.192.in-addr.arpa. (44)
0:39:28.077704 IP 192.168.198.2.domain > 192.168.198.128.35496: 58919 NXDomain
0/1/0 (93)
0:39:28.077903 IP 192.168.198.128.56215 > 192.168.198.2.domain: 59223+ PTR? 2.
98.168.192.in-addr.arpa. (44)
0:39:28.103262 IP 192.168.198.2.domain > 192.168.198.128.56215: 59223 NXDomain
0/1/0 (93)
```

ping:

```
usel:~ # tcpdump -i eth0
cpdump: verbose output suppressed, use -v or -vv for full protocol decode
istening on eth0, link-type EN1OMB (Ethernet), capture size 96 bytes
0:39:28.014065 IP 192.168.198.1.netbios-ns > 192.168.198.255.netbios-ns: NBT U
P PACKET(137): QUERY; REQUEST; BROADCAST
0:39:28.014840 IP 192.168.198.128.56851 > 192.168.198.2.domain: 18867+ PTR? 25
.198.168.192.in-addr.arpa. (46)
0:39:28.027418 IP 192.168.198.1.49733 > 224.0.0.252.llmnr: UDP, length 22
0:39:28.027850 IP 192.168.198.128.50611 > lhr14s24-in-f19.1e100.net.https: P 2
12329209:2912329246(37) ack 1375935787 win 18760
0:39:28.034322 IP lhr14s24-in-f19.1e100.net.https > 192.168.198.128.50611: . a
k 37 win 64240
0:39:28.037196 IP6 fe80::2cfe:5154:6c0d:fafd.65460 > ff02::1:3.llmnr: UDP, len
th 22
0:39:28.039057 IP 192.168.198.1.65460 > 224.0.0.252.llmnr: UDP, length 22
0:39:28.051576 IP 192.168.198.2.domain > 192.168.198.128.56851: 18867 NXDomain
0/1/0 (95)
0:39:28.051744 IP 192.168.198.128.35496 > 192.168.198.2.domain: 58919+ PTR? 1.
98.168.192.in-addr.arpa. (44)
0:39:28.077704 IP 192.168.198.2.domain > 192.168.198.128.35496: 58919 NXDomain
0/1/0 (93)
0:39:28.077903 IP 192.168.198.128.56215 > 192.168.198.2.domain: 59223+ PTR? 2.
98.168.192.in-addr.arpa. (44)
0:39:28.103262 IP 192.168.198.2.domain > 192.168.198.128.56215: 59223 NXDomain
0/1/0 (93)
```