NAME:- KOMAL MAHESH CHITNIS

MOODLE ID:-20102068

DIV:-A

CLASS:-T.E.

ROLL NO:-26

EXPERIMENT NO.-3

```
                    apsit@slave17: ~
apsit@slave17:~$ netstat -r
Kernel IP routing table
Destination     Gateway             Genmask           Flags   MSS Window  irtt Iface
default         192.168.192.193 0.0.0.0               UG        0 0          0 enp2s0
link-local      *                   255.255.0.0       U         0 0          0 enp2s0
192.168.0.0     *                   255.255.0.0       U         0 0          0 enp2s0
apsit@slave17:~$ netstat -rn
Kernel IP routing table
Destination     Gateway             Genmask           Flags   MSS Window  irtt Iface
0.0.0.0         192.168.192.193 0.0.0.0               UG        0 0          0 enp2s0
169.254.0.0     0.0.0.0             255.255.0.0       U         0 0          0 enp2s0
192.168.0.0     0.0.0.0             255.255.0.0       U         0 0          0 enp2s0
apsit@slave17:~$ route
Kernel IP routing table
Destination     Gateway             Genmask           Flags Metric Ref     Use Iface
default         192.168.192.193 0.0.0.0               UG    100    0         0 enp2s0
link-local      *                   255.255.0.0       U     1000   0         0 enp2s0
192.168.0.0     *                   255.255.0.0       U     100    0         0 enp2s0
apsit@slave17:~$ route -n
Kernel IP routing table
Destination     Gateway             Genmask           Flags Metric Ref     Use Iface
0.0.0.0         192.168.192.193 0.0.0.0               UG    100    0         0 enp2s0
169.254.0.0     0.0.0.0             255.255.0.0       U     1000   0         0 enp2s0
192.168.0.0     0.0.0.0             255.255.0.0       U     100    0         0 enp2s0
```

```
                    apsit@slave17: ~
192.168.0.0/16 dev enp2s0  proto kernel  scope link  src 192.168.5.90  metric
0
apsit@slave17:~$ sudo ip route add 169.254.0.0 via 192.168.192.193 dev enp2s0
[sudo] password for apsit:
apsit@slave17:~$ route
Kernel IP routing table
Destination     Gateway             Genmask           Flags Metric Ref     Use Iface
default         192.168.192.193 0.0.0.0               UG    100    0         0 enp2s0
169.254.0.0     192.168.192.193 255.255.255.255 UGH   0      0         0 enp2s0
link-local      *                   255.255.0.0       U     1000   0         0 enp2s0
192.168.0.0     *                   255.255.0.0       U     100    0         0 enp2s0
apsit@slave17:~$ sudo ip route delete 169.254.0.0 via 192.168.192.193 dev enp2s0

apsit@slave17:~$ route
Kernel IP routing table
Destination     Gateway             Genmask           Flags Metric Ref     Use Iface
default         192.168.192.193 0.0.0.0               UG    100    0         0 enp2s0
link-local      *                   255.255.0.0       U     1000   0         0 enp2s0
192.168.0.0     *                   255.255.0.0       U     100    0         0 enp2s0
apsit@slave17:~$ ifconfig -a
enp2s0    Link encap:Ethernet  HWaddr 40:b0:34:1b:56:f8
          inet addr:192.168.5.90  Bcast:192.168.255.255  Mask:255.255.0.0
          inet6 addr: fe80::cc7e:9444:aa50:f86a/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
```

```
apsit@slave17: ~

--- www.google.com ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5007ms
rtt min/avg/max/mdev = 1.539/1.628/1.684/0.073 ms
apsit@slave17:~$ sudo route add gw 192.168.12.69
gw: No address associated with name
apsit@slave17:~$ sudo route add gw 192.168.420.69
gw: No address associated with name
apsit@slave17:~$ sudo route add gw 192.168.69.420
gw: No address associated with name
apsit@slave17:~$ sudo route add gw 192.168.0.0
gw: No address associated with name
apsit@slave17:~$ sudo route add gw 169.254.0.0
gw: No address associated with name
apsit@slave17:~$ sudo route add gw 192.168.5.90
gw: No address associated with name
apsit@slave17:~$ sudo route add default gw 192.168.12.69
apsit@slave17:~$ route
Kernel IP routing table
Destination     Gateway           Genmask         Flags Metric Ref    Use Iface
default         192.168.12.69     0.0.0.0         UG    0      0        0 enp2s0
default         192.168.192.193   0.0.0.0         UG    100    0        0 enp2s0
link-local      *                 255.255.0.0     U     1000   0        0 enp2s0
192.168.0.0     *                 255.255.0.0     U     100    0        0 enp2s0
apsit@slave17:~$
```