vQuestion 10:

Use Linux to view the MAC address table of a switch (if using a Linux-based network switch). Use the bridge

or ip link commands to inspect the MAC table and demonstrate a basic switch's operation.

shylesh@shylesh-VivoBook-ASUSLaptop-X515EA-X515EA:~$ sudo ip link add name br0 type bridge

[sudo] password for shylesh:

shylesh@shylesh-VivoBook-ASUSLaptop-X515EA-X515EA:~$ ip link show

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1000

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

2: wlo1: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc noqueue state UP mode DORMANT group default qlen 1000

link/ether 00:11:22:33:44:55 brd ff:ff:ff:ff:ff:ff

altname wlp2s0

3: br0: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN mode DEFAULT group default qlen 1000

link/ether 52:09:f1:89:d4:9c brd ff:ff:ff:ff:ff:ff

shylesh@shylesh-VivoBook-ASUSLaptop-X515EA-X515EA:~$ ip link show type bridge

3: br0: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN mode DEFAULT group default qlen 1000

link/ether 52:09:f1:89:d4:9c brd ff:ff:ff:ff:ff:ff

shylesh@shylesh-VivoBook-ASUSLaptop-X515EA-X515EA:~$ sudo ip link set wlo1 master br0

Error: Device does not allow enslaving to a bridge. //Wi-Fi drivers is not allowing bridging mode, because in client mode.

shylesh@shylesh-VivoBook-ASUSLaptop-X515EA-X515EA:~$ bridge fdb show

01:00:5e:00:00:01 dev wlo1 self permanent

33:33:00:00:00:01 dev wlo1 self permanent

33:33:ff:c9:90:1b dev wlo1 self permanent

01:00:5e:00:00:fb dev wlo1 self permanent

33:33:ff:3c:14:d7 dev wlo1 self permanent

33:33:ff:04:ec:88 dev wlo1 self permanent

33:33:00:00:00:fb dev wlo1 self permanent

33:33:00:00:00:01 dev br0 self permanent

52:09:f1:89:d4:9c dev br0 vlan 1 master br0 permanent