## Apply network tool to building Class A and Class B network using router

## Class A:

IP address range: 10.0.0.0 to 10.255.255.255

Subnet mask: 255.0.0.0

- sudo nano /etc/sysctl.conf
  (It will open a file on terminal)
- (Uncomment or add the following line to enable IP forwarding) net.ipv4.ip forward = 1
- 3. route -n (see iface)
- 4. sudo ifconfig eth0(lface) 10.0.0.1 netmask 255.0.0.0 up
- 5. route -n

## Class B:

IP address range: 172.16.0.0 to 172.31.255.255

Subnet mask: 255.255.0.0

- sudo nano /etc/sysctl.conf
  (It will open a file on terminal)
- (Uncomment or add the following line to enable IP forwarding) net.ipv4.ip forward = 1
  - route -n (see iface)
- sudo ip addr add 172.16.0.1/16 dev eth0(lface)
  - route -n

## Apply network tool to building Class A network using switch.

- Route -n
  - (see iface)
- sudo ip addr add 10.0.0.2/8 dev eth0(lface)
- sudo ip route add default via 10.0.0.1 dev eth0(iface)
- ping 10.0.0.3