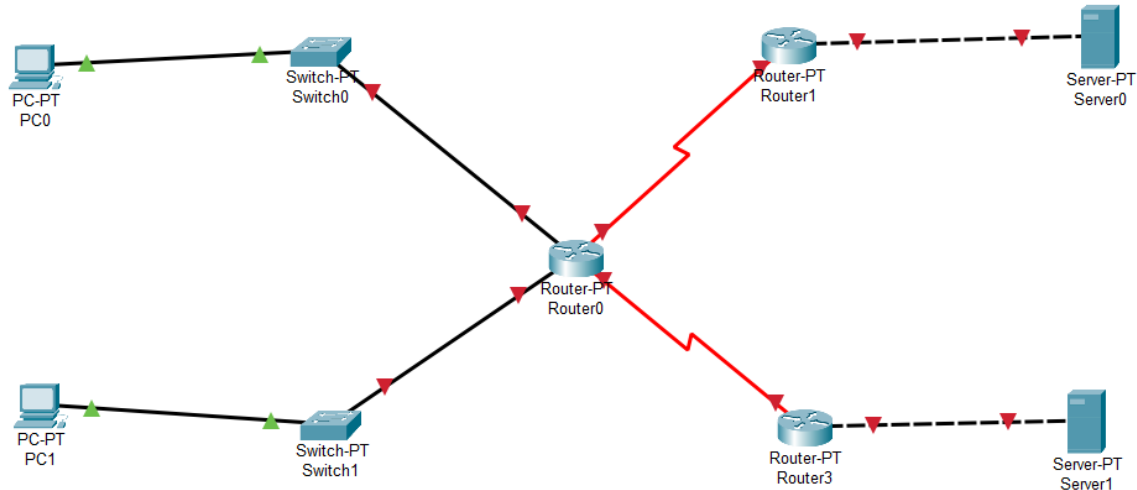


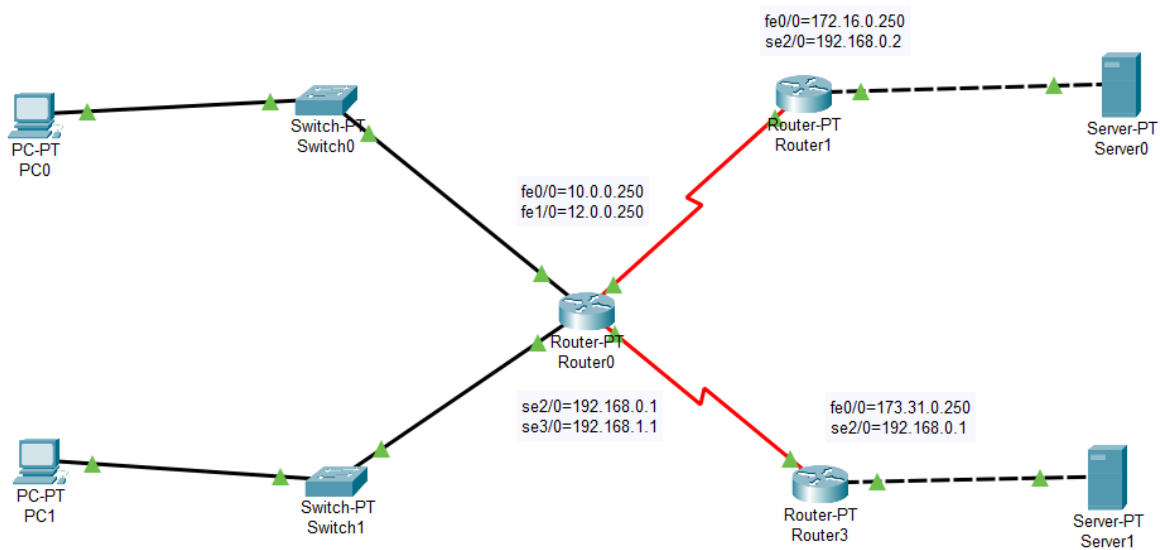
## Practical 5

Aim: Understanding , Reading and Analyzing Routing Table of a network.

Step 1: Basic setup □



The below image is just for quick reference



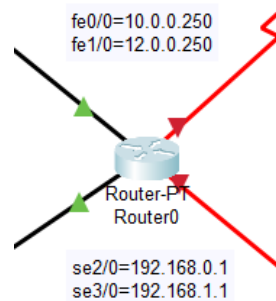
Step 2: Click on Router 0, then go to config and make the following changes:

FastEthernet0/0 → IP address : 10.0.0.250 & hit enter & tick the On checkbox

FastEthernet1/0 → IP address : 12.0.0.250 & hit enter & tick the On checkbox

Serial2/0 → IP address : 192.168.0.1 & hit enter & tick the On checkbox

Serial3/0 → IP address : 192.168.1.1 & hit enter & tick the On checkbox



Router0

Physical **Config** CLI Attributes

**GLOBAL**

- Settings
- Algorithm Settings
- ROUTING**
- Static
- RIP
- INTERFACE**
- FastEthernet0/0**
- FastEthernet1/0
- Serial2/0
- Serial3/0
- FastEthernet4/0
- FastEthernet5/0

**FastEthernet0/0**

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0009.7C03.D6C9

IP Configuration

IP Address 10.0.0.250

Subnet Mask 255.0.0.0

Tx Ring Limit 10

Equivalent IOS Commands

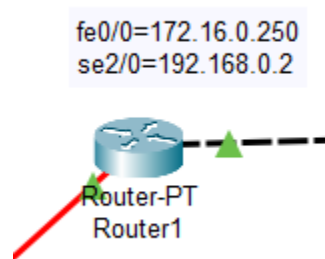
```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

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Step 3: Similarly for Router 1

FastEthernet0/0 → IP address : 172.16.0.250 & hit enter & tick the On checkbox

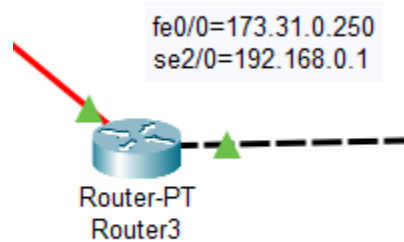
Serial2/0 → IP address : 192.168.0.2 & hit enter & tick the On checkbox



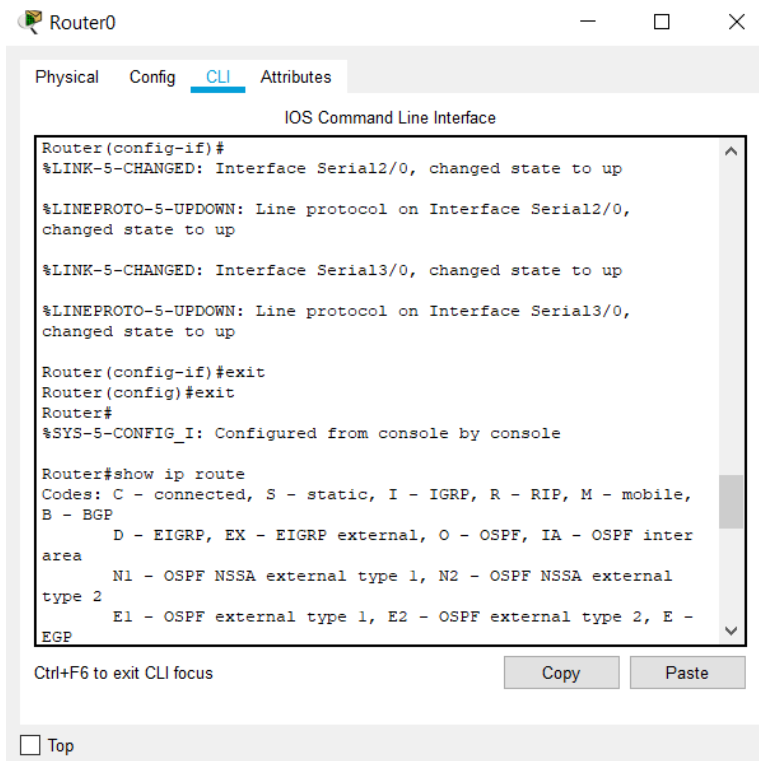
Step 4: Similarly for Router 3

FastEthernet0/0 → IP address : 173.31.0.250 & hit enter & tick the On checkbox

Serial2/0 → IP address : 192.168.0.1 & hit enter & tick the On checkbox



Step 5: Now click on Router 0 and go to CLI




In CLI write **exit** until you come to the **Router#** (Here we have written exit twice and then pressed enter )

Then write the command: show ip route

```
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#show ip route
```

You will get the output like this:

 Router0

Physical

Config

CLI

Attributes

IOS Command Line Interface

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP  
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area  
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2  
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP  
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area  
\* - candidate default, U - per-user static route, o - ODR  
P - periodic downloaded static route  
  
Gateway of last resort is not set  
  
C 10.0.0.0/8 is directly connected, FastEthernet0/0  
C 12.0.0.0/8 is directly connected, FastEthernet1/0  
C 192.168.0.0/24 is directly connected, Serial2/0  
C 192.168.1.0/24 is directly connected, Serial3/0  
  
Router#

Ctrl+F6 to exit CLI focus

Copy

Paste

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