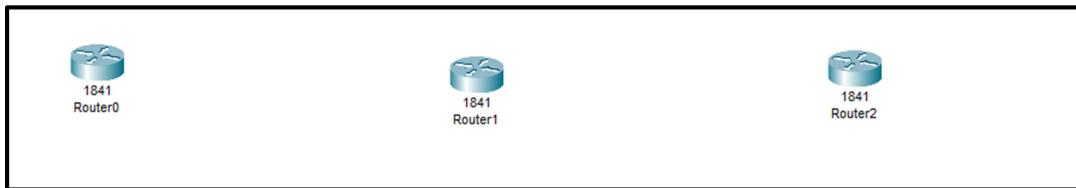


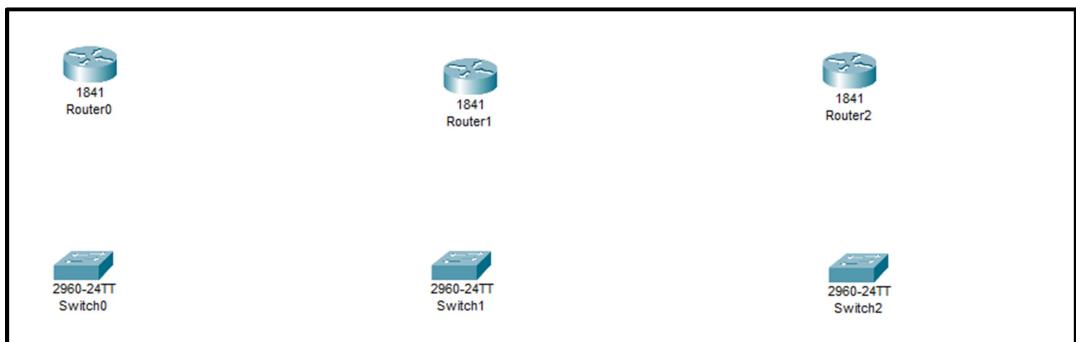
## Practical No.05

### ❖ Understanding, Reading and Analyzing Routing Table of a network.

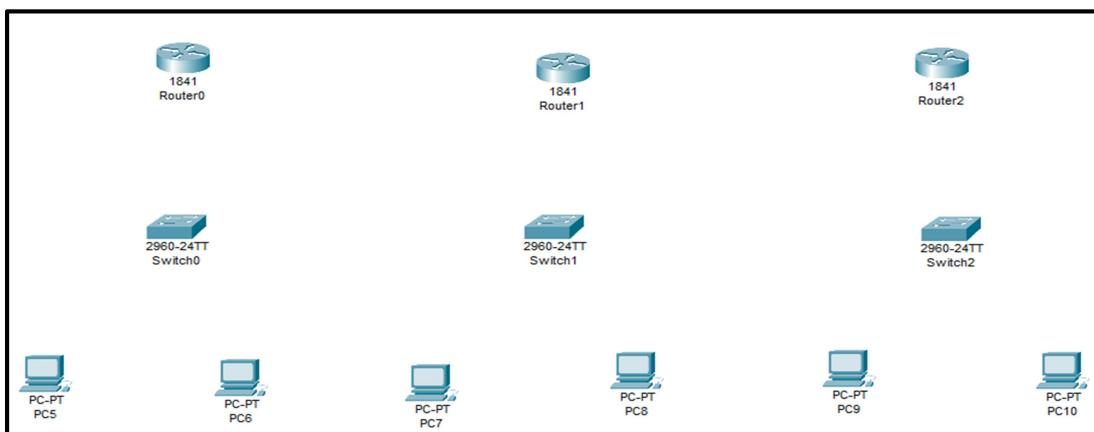
#### 1) Add 3 Routers 1841



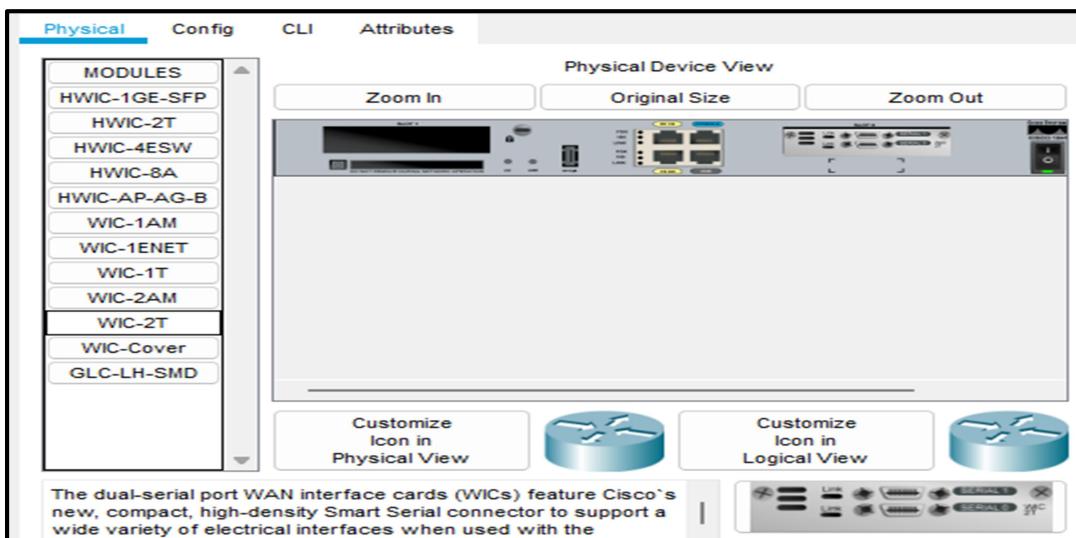
#### 2) Add 1 switch to each router (2960 -24TT)



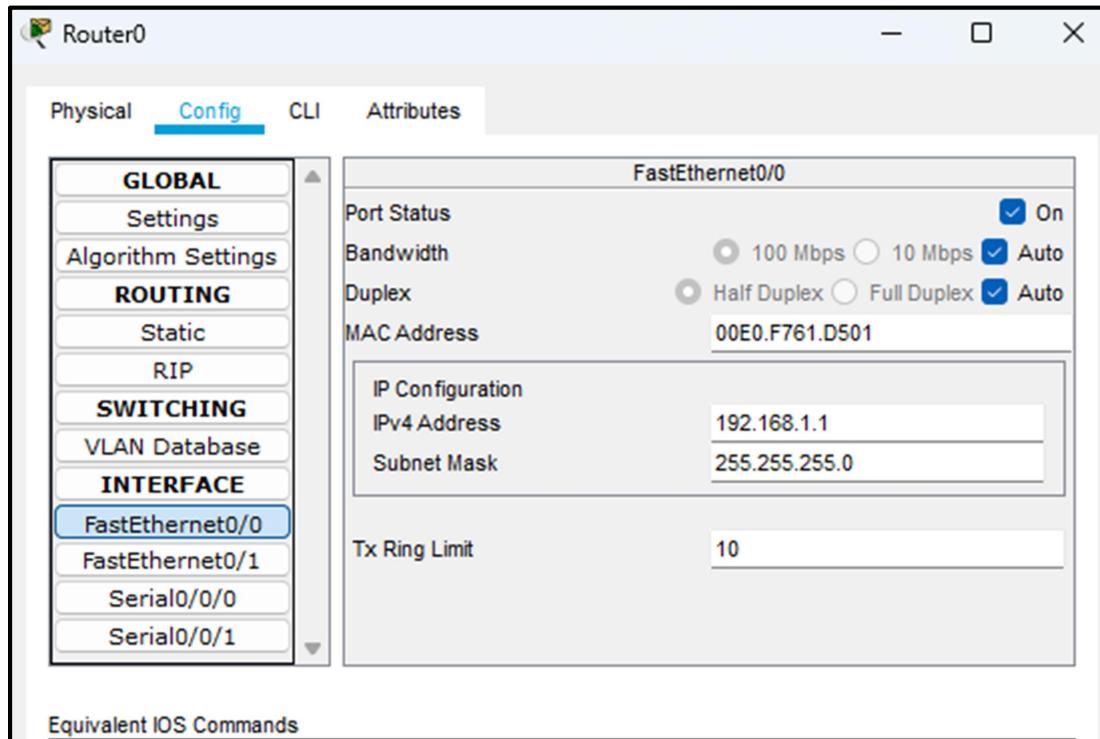
#### 3) Add 2 pc's to each router



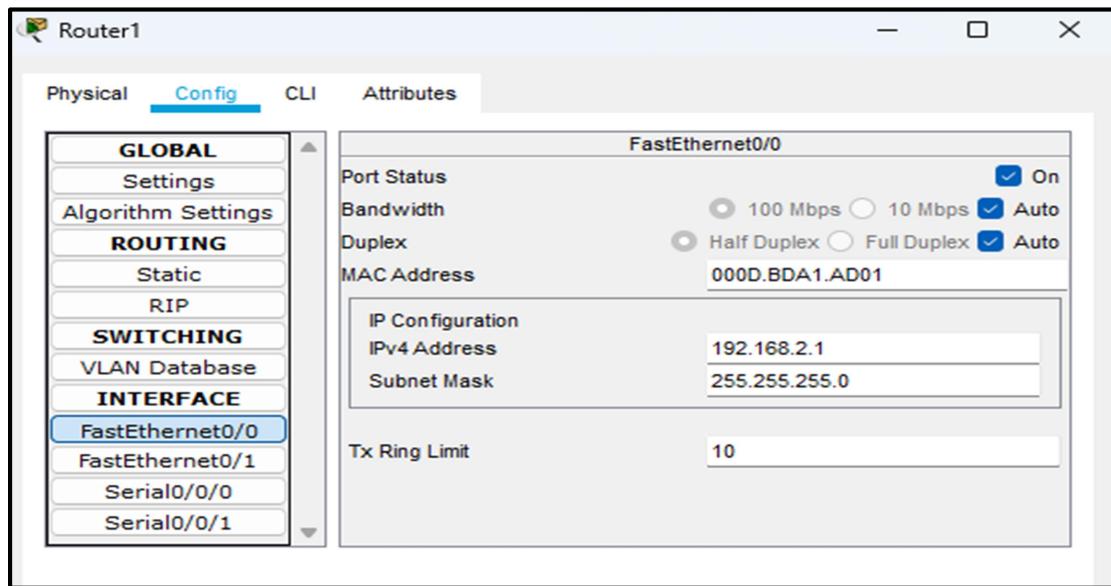
#### 4) Add WIC-2T for each router



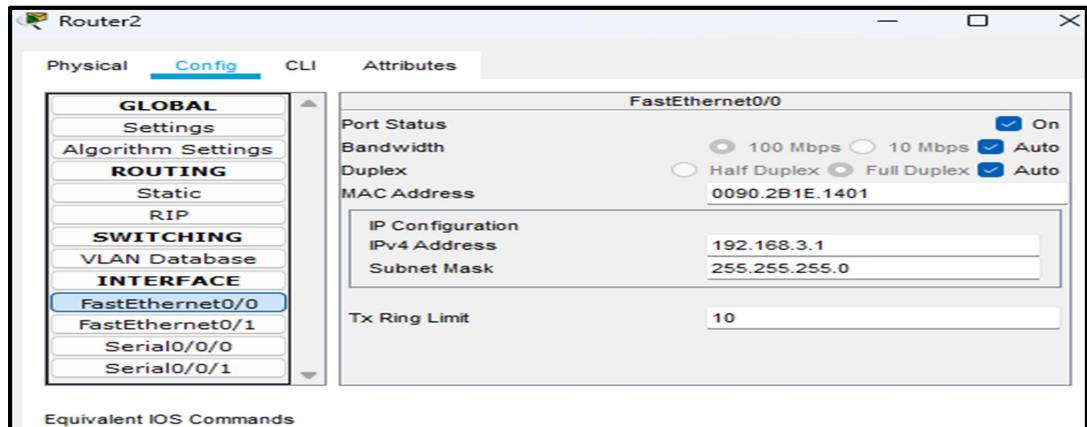
### 5) Add IP address to Router0



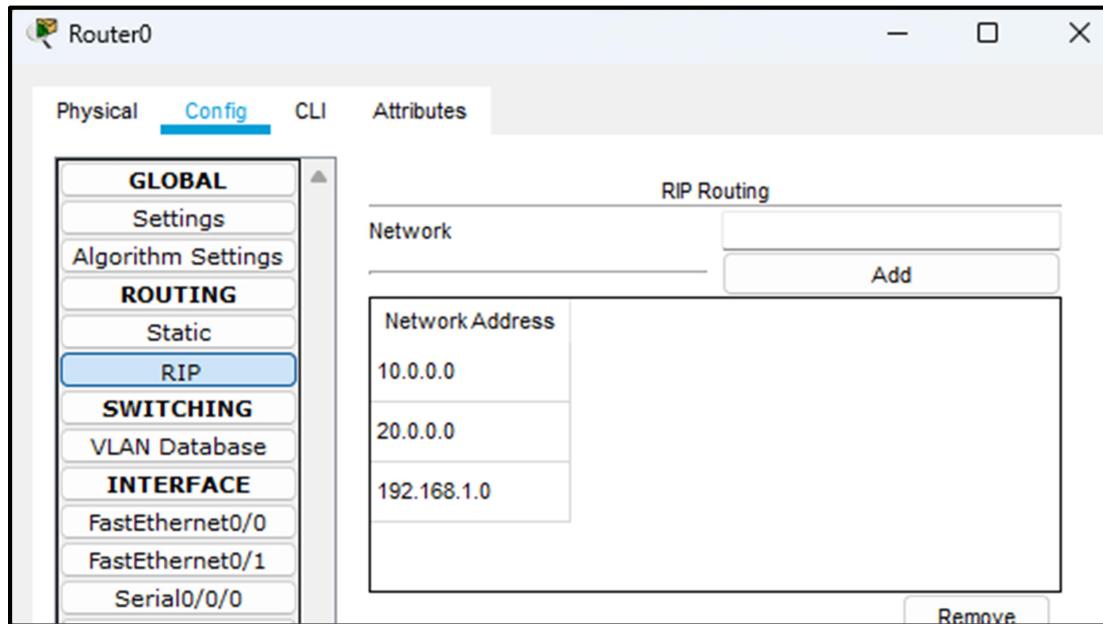
### 6) Add IP address to Router1



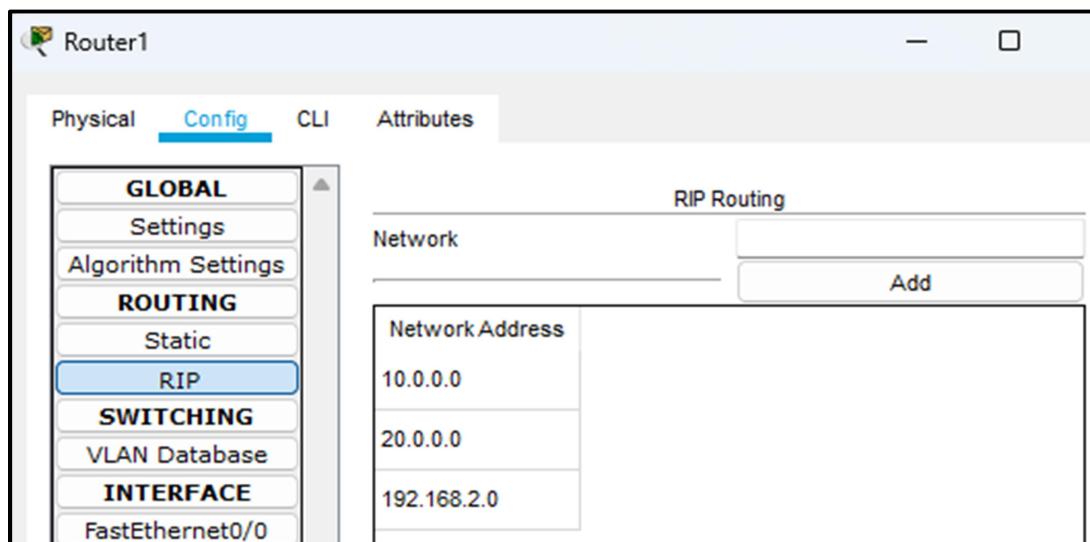
### 7) Add IP address to Router2



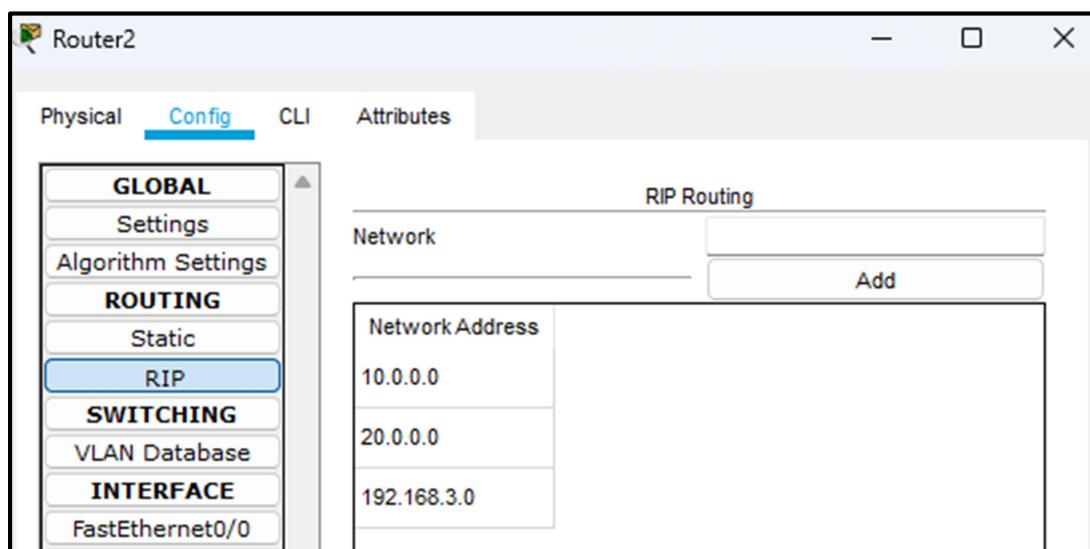
**8) Add RIP to Router0**



**9) Add RIP to Router1**



**10) Add RIP to Router2**



### 11) All available route for Router0

```
Router#show ip route
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, Serial0/0/0
R    20.0.0.0/8 [120/1] via 10.0.1.2, 00:00:02, Serial0/0/0
C    192.168.1.0/24 is directly connected, FastEthernet0/0
R    192.168.2.0/24 [120/1] via 10.0.1.2, 00:00:02, Serial0/0/0
R    192.168.3.0/24 [120/2] via 10.0.1.2, 00:00:02, Serial0/0/0

Router#
```

### 12) All available route for Router1

```
Router#show ip route
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, Serial0/0/0
C    20.0.0.0/8 is directly connected, Serial0/0/1
R    192.168.1.0/24 [120/1] via 10.0.1.1, 00:00:09, Serial0/0/0
C    192.168.2.0/24 is directly connected, FastEthernet0/0
R    192.168.3.0/24 [120/1] via 20.0.1.2, 00:00:25, Serial0/0/1

Router#
```

### 13) All available route for Router2

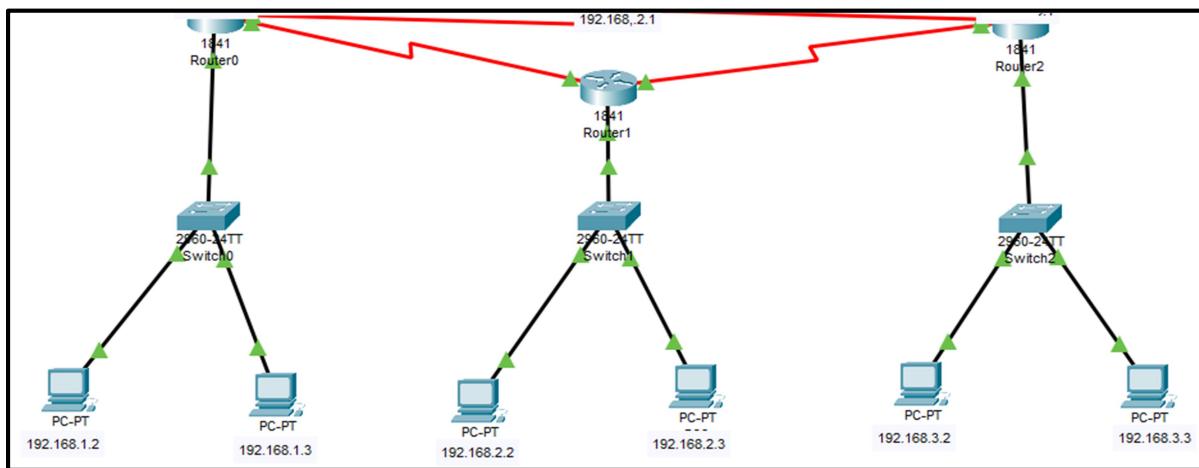
```
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B -
BGP
      D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
      E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
      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

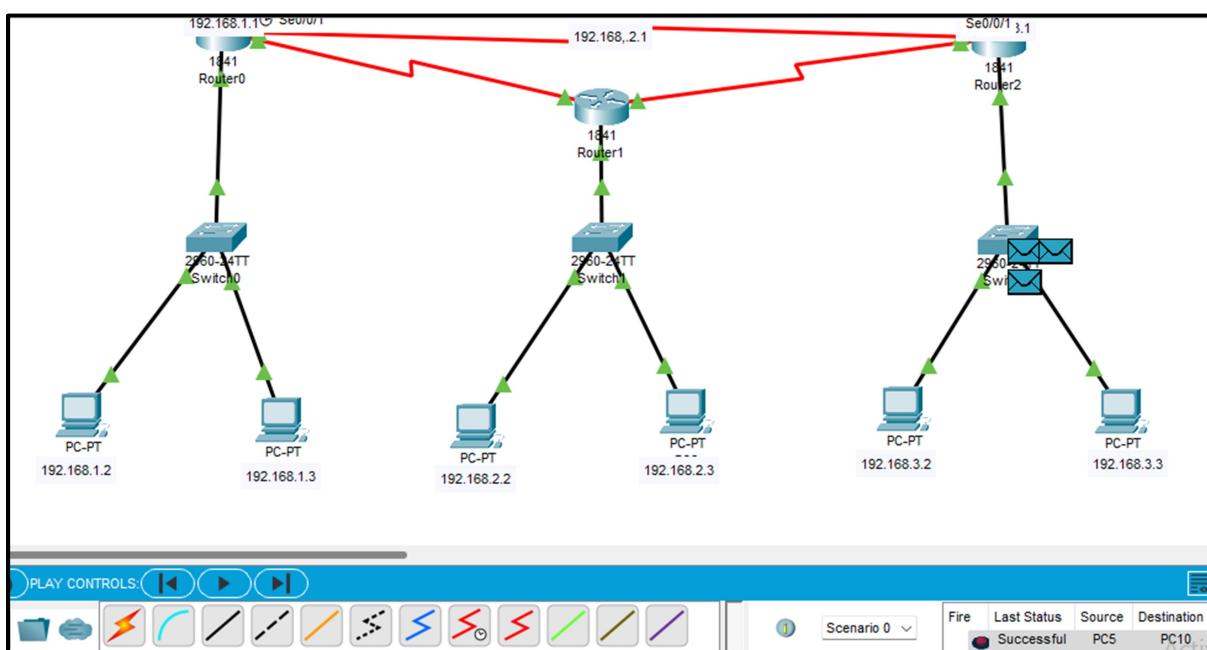
R    10.0.0.0/8 [120/1] via 20.0.1.1, 00:00:02, Serial0/0/0
C    20.0.0.0/8 is directly connected, Serial0/0/0
R    192.168.1.0/24 [120/2] via 20.0.1.1, 00:00:02, Serial0/0/0
R    192.168.2.0/24 [120/1] via 20.0.1.1, 00:00:02, Serial0/0/0
C    192.168.3.0/24 is directly connected, FastEthernet0/0

Router#
```

#### 14) All pc's with its IP address



#### 15) Simulation



#### 16) Simulation event list

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	PC5	ICMP
	0.001	PC5	Switch0	ICMP
	0.002	Switch0	Router0	ICMP
	0.003	Router0	Router2	ICMP
	0.004	Router2	Switch2	ICMP
	0.005	Switch2	PC10	ICMP
Visible	0.006	PC10	Switch2	ICMP