Date: 12/09/24

Lab Practical #10:

Study the concept of routing using packet tracer. (Static Routing)

Practical Assignment #10:

1. Connect the two different networks based on the calculated IP addresses and subnet using a packet tracer.

- **Step 1**: First, open the cisco packet tracer desktop and select the devices given below

S.NO	Device	Model Name	Qty.
1.	PC	PC	4
2.	Switch	PT-Switch	2
3.	Router	PT-Router	2

- **Step 2: IP Addressing Table For PCs:**

S.NO	Device	IPv4 Address	Subnet Mask	Default Gateway
1.	PC0	192.168.1.2	255.255.255.0	192.168.1.1
2.	PC1	192.168.1.3	255.255.255.0	192.168.1.1
3.	PC2	192.168.2.2	255.255.255.0	192.168.2.1
4.	PC3	192.168.2.3	255.255.255.0	192.168.2.1

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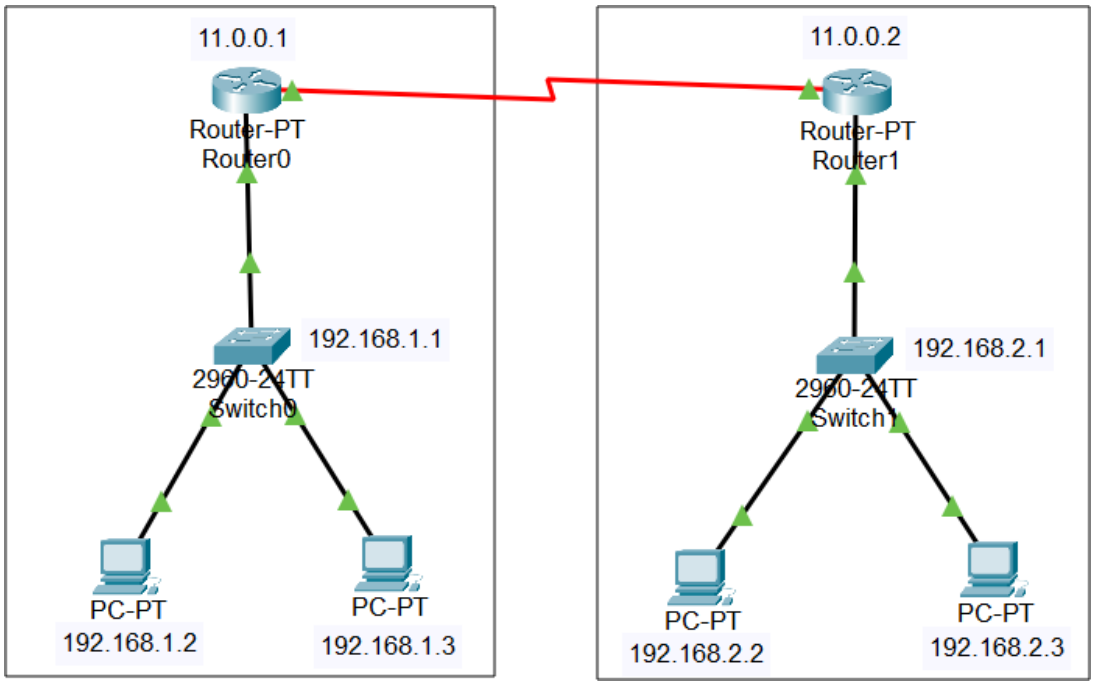
- **Step 3:** Then, create a network topology as shown below the image.
- **Step 4 :** Use an Automatic connecting cable to connect the devices with others.



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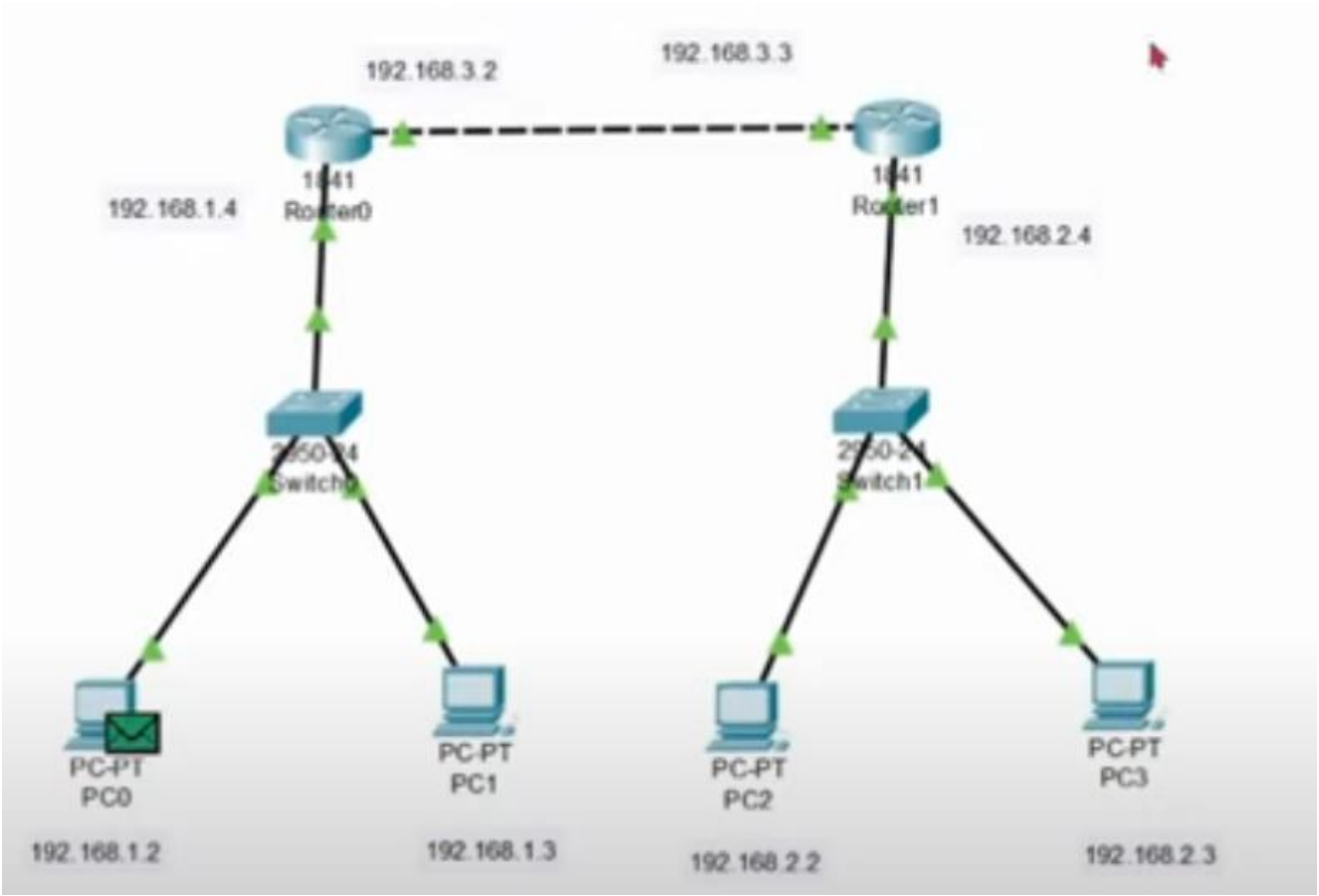
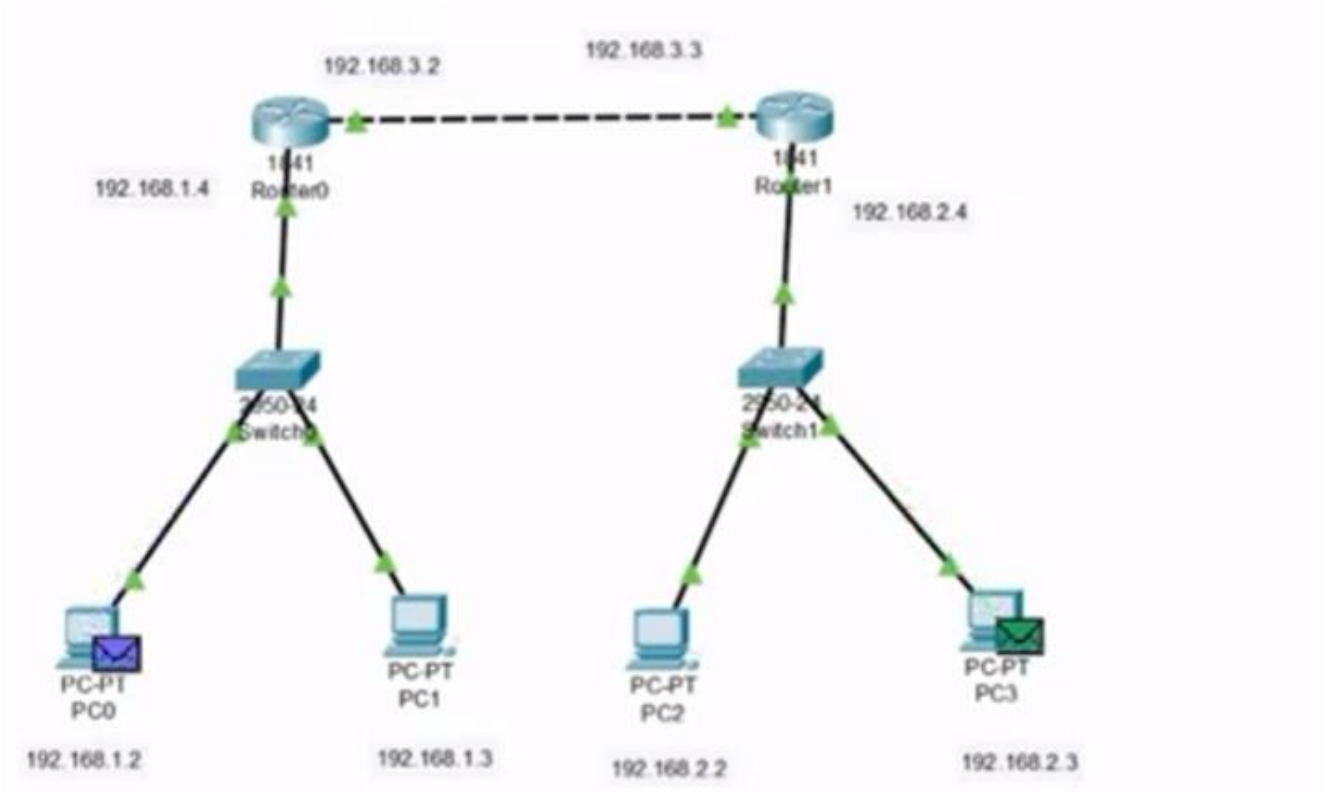

192.168.3.2
192.168.3.3
192.168.1.4
192.168.2.4
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
PC-PT
PC3
192.168.1.2
192.168.1.3
192.168.2.2
192.168.2.3


192.168.3.2
192.168.3.3
192.168.1.4
192.168.2.4
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2
PC-PT
PC3
192.168.1.2
192.168.1.3
192.168.2.2
192.168.2.3

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2. Connect the three different networks based on the calculated IP addresses and subnet using a packet tracer.

- **Step 1**: First, open the cisco packet tracer desktop and select the devices given below

S.NO	Device	Model Name	Qty.
1.	PC	PC	6
2.	Switch	PT-Switch	3
3.	Router	PT-Router	3

- **Step 2 : IP Addressing Table For PCs:**

S.NO	Device	IPv4 Address	Subnet Mask	Default Gateway
1.	PC0	192.168.10.2	255.255.255.0	192.168.10.1
2.	PC1	192.168.10.3	255.255.255.0	192.168.10.1
3.	PC2	192.168.20.2	255.255.255.0	192.168.20.1
4.	PC3	192.168.20.3	255.255.255.0	192.168.20.1

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S.NO	Device	IPv4 Address	Subnet Mask	Default Gateway
5.	PC4	192.168.30.2	255.255.255.0	192.168.30.1
6.	PC5	192.168.30.3	255.255.255.0	192.168.30.1

- **Step 3 :** Then, create a network topology as shown below the image.
- **Step 4 :** Use an Automatic connecting cable to connect the devices with others.