COMPUTER NETWORK

MODUL 2

EVEN SEMESTER

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INFORMATION STUDY PROGRAM

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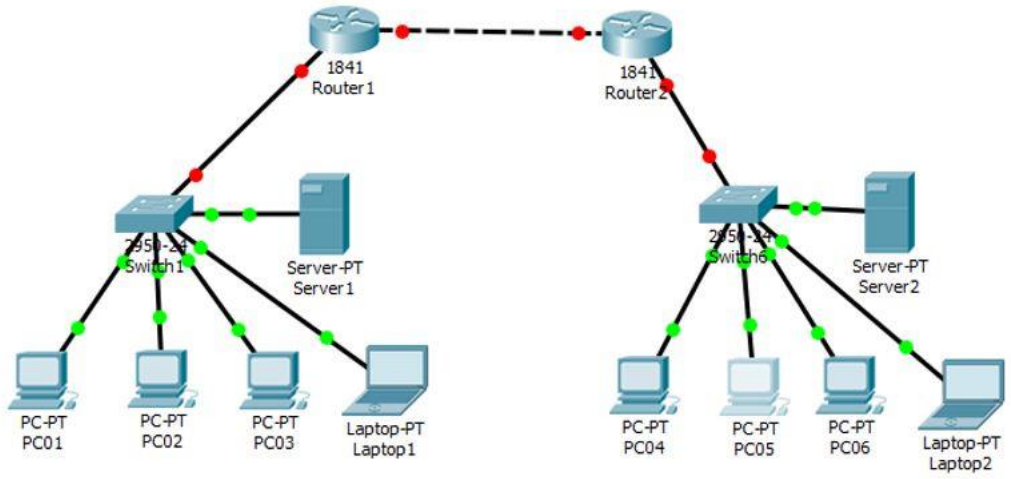
MUHAMMADIYAH UNIVERSITY OF SURAKARTA

Practicum Activity

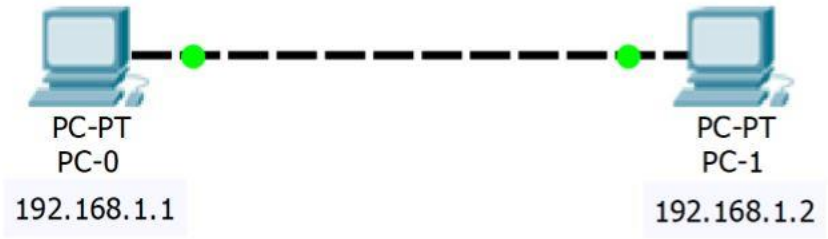
1. Activity 1



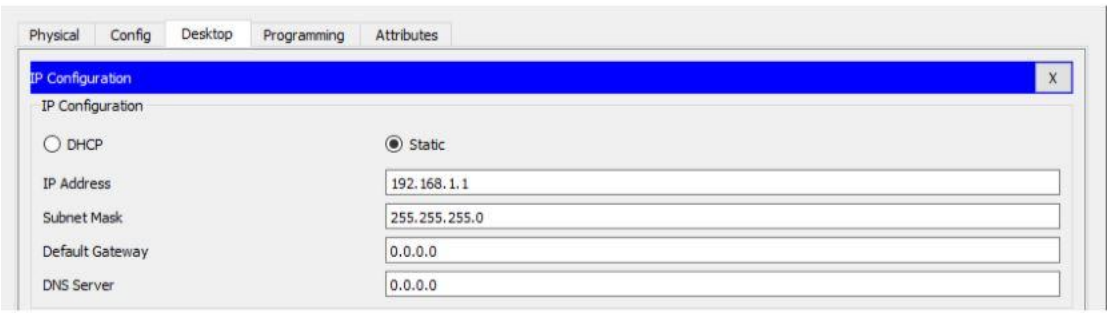
In the first activity there are router components, switches, and devices that are connected by connectors. Each connector has a lamp that symbolizes that the connector is connected. The red color represents the connector is not connected, the orange color represents the connector is being installed / the connection process, the green color represents the connector is connected.

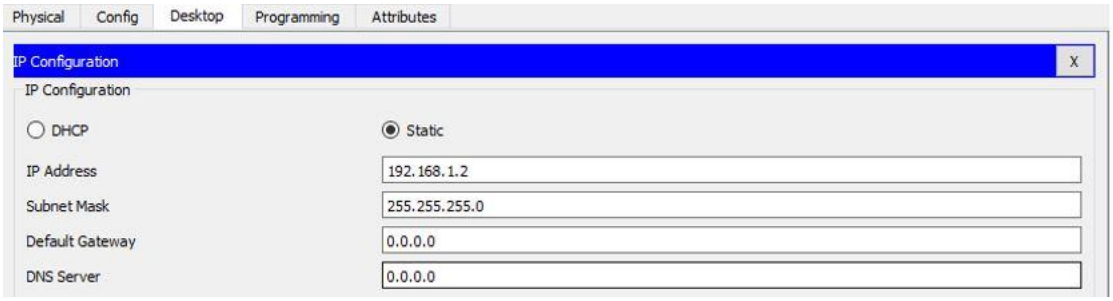
2. Activity 2. Creating a Peer to Pear Network

- Create a design using packet tracer

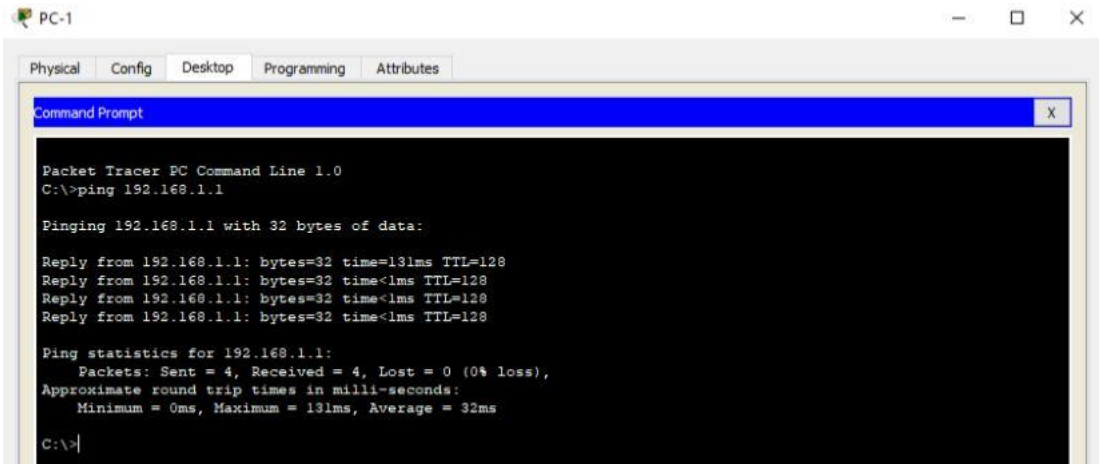


- Give IP Address





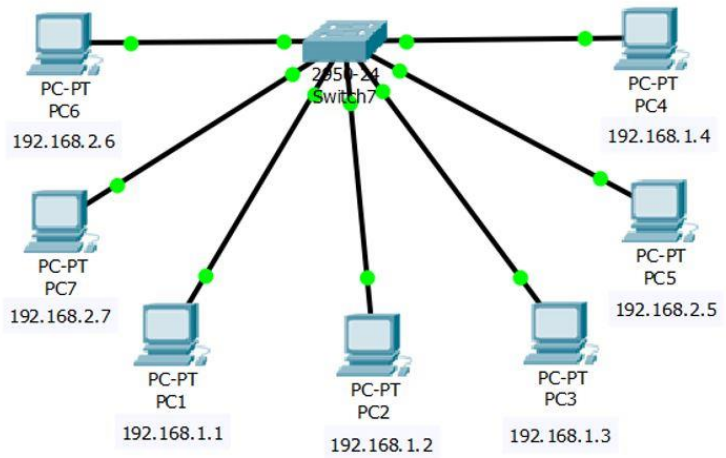
- Check the connection



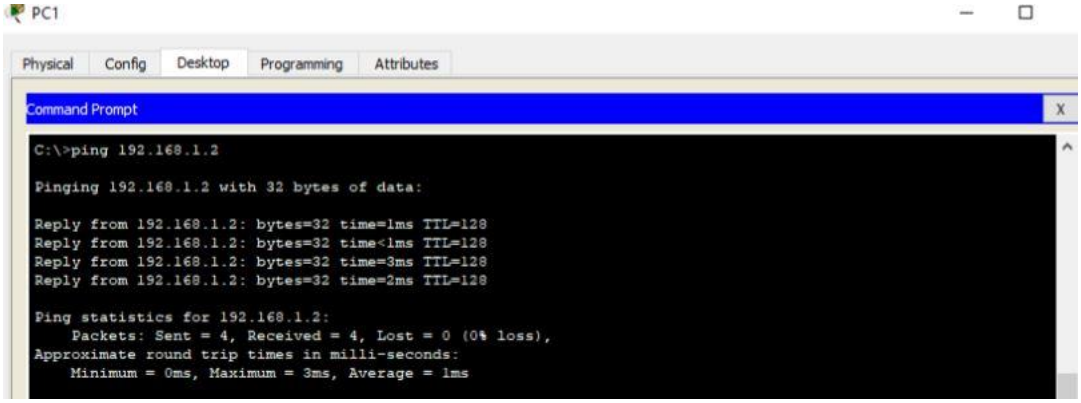
Peer to peer two workstations there are no obstacles. Each connection can be proven by pinging each other successfully and there is no RTO as shown in the message column.

3. Activity 3. Make a network with a switch

- Make a computer network with an IP address

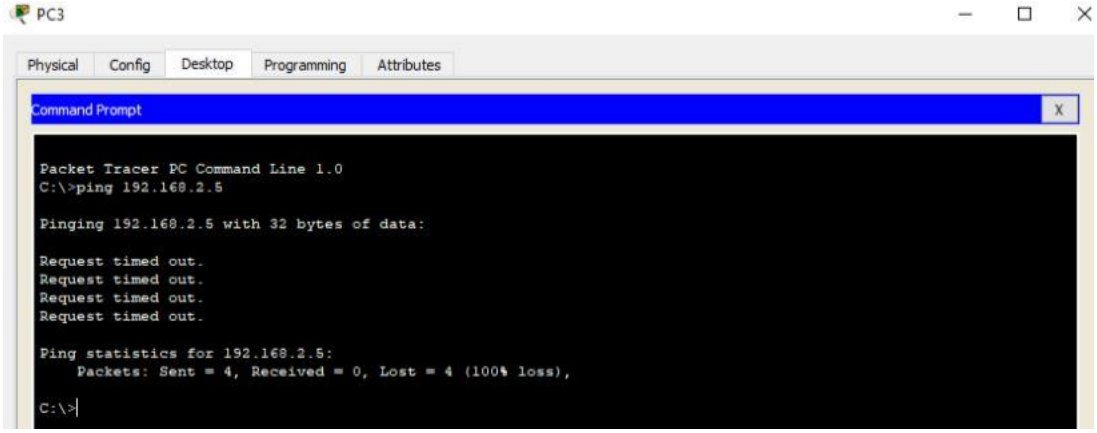


- Ping connection from PC1 to PC2



a. PC1 to PC2 : is clear without any constraints.

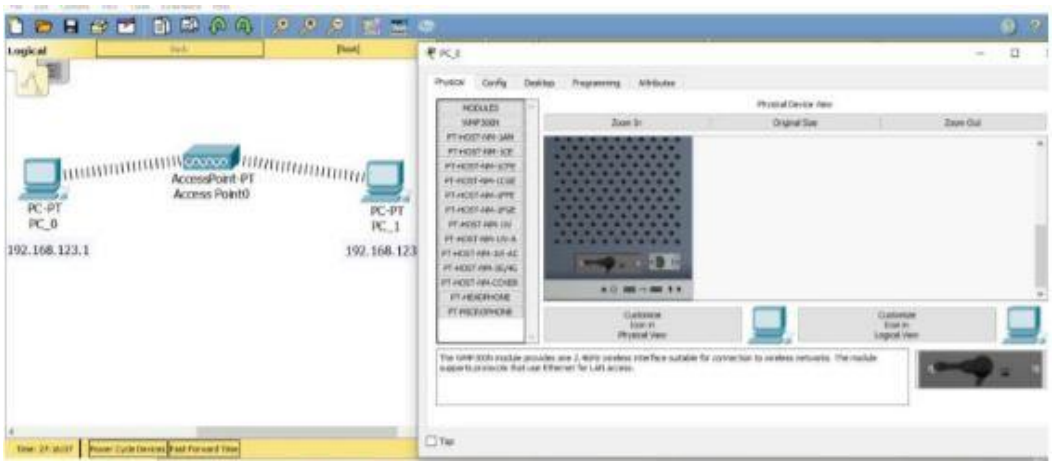
- Ping connection from PC3 to PC5



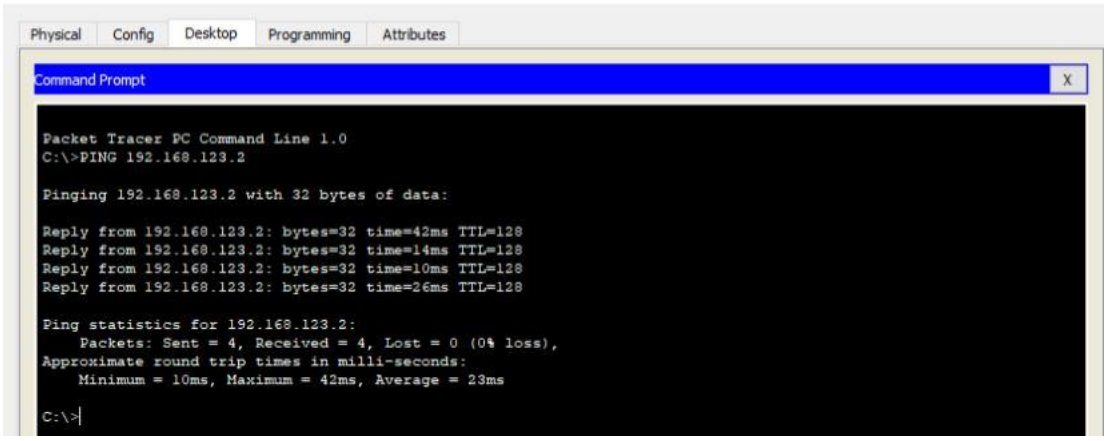
b. PC3 to PC5 : experiences RTO due to differences in network ID.

4. Activity 4. Wireless Network

- Replace the lan card module on the PC device



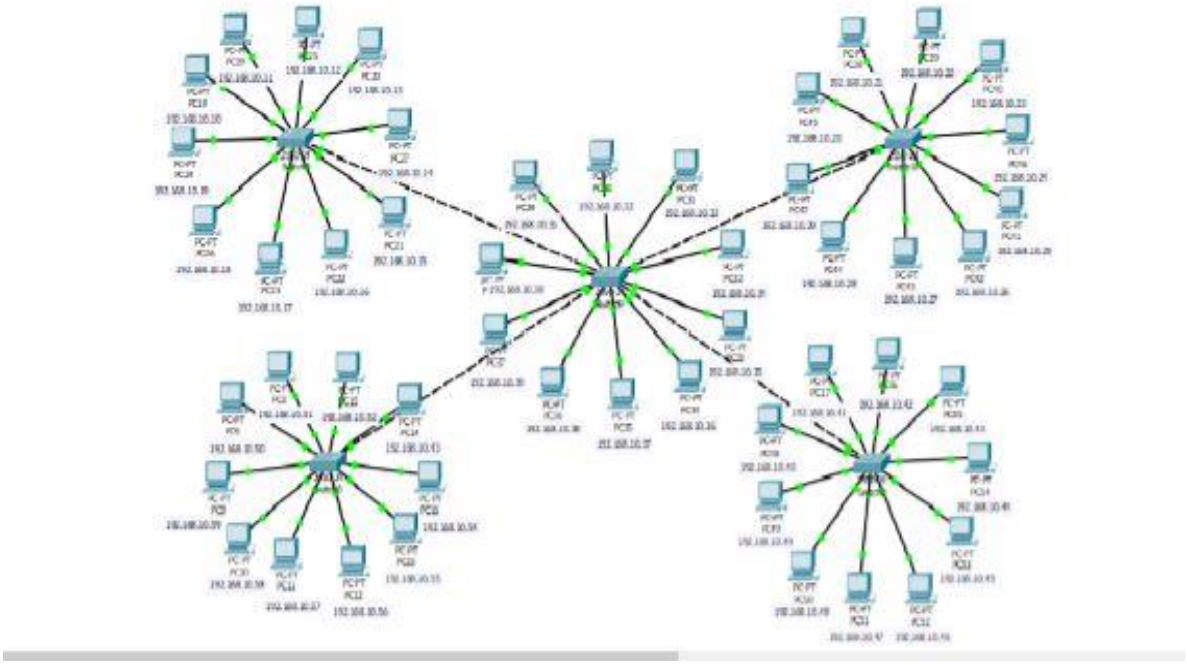
- And then , do pink between the two PCs

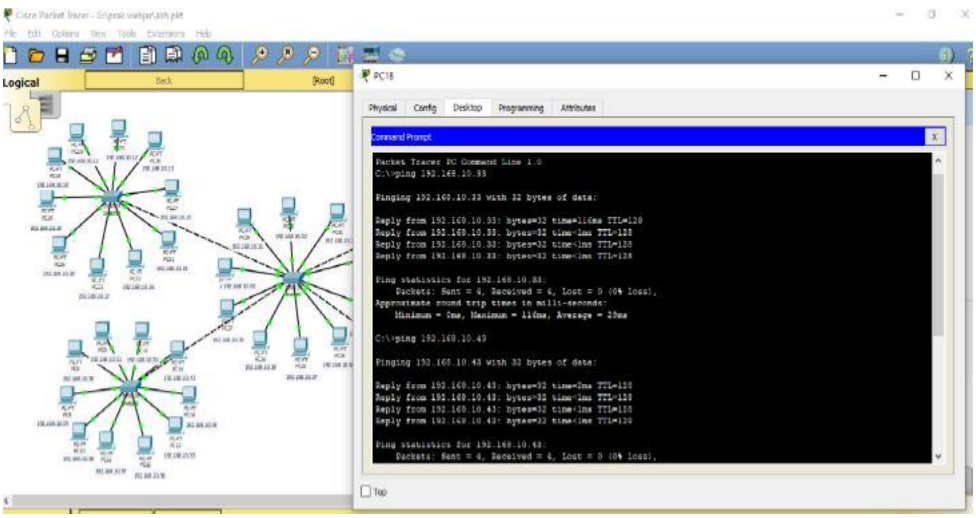


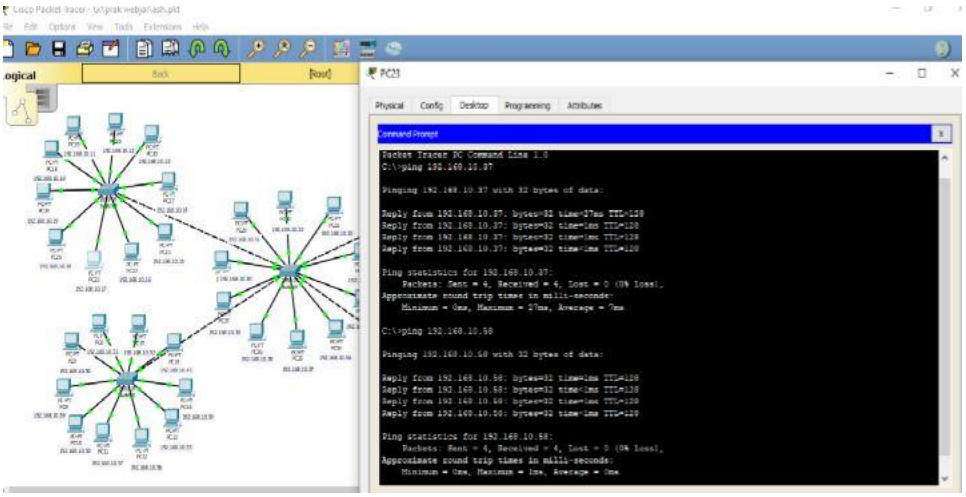
Replacing computer components into wireless components and connecting 2 computers with wireless components. There are 1 access point and 2 workstations. Ping clearly without any problems.

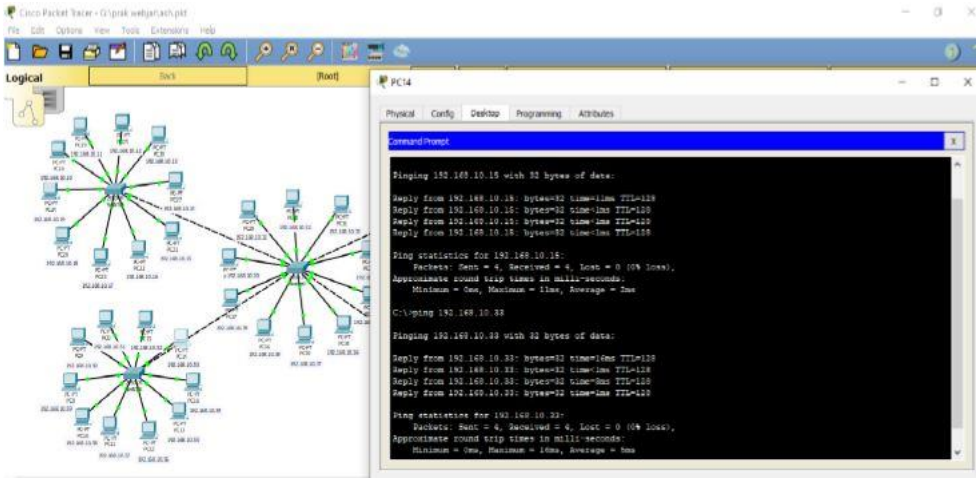
EXERCISE

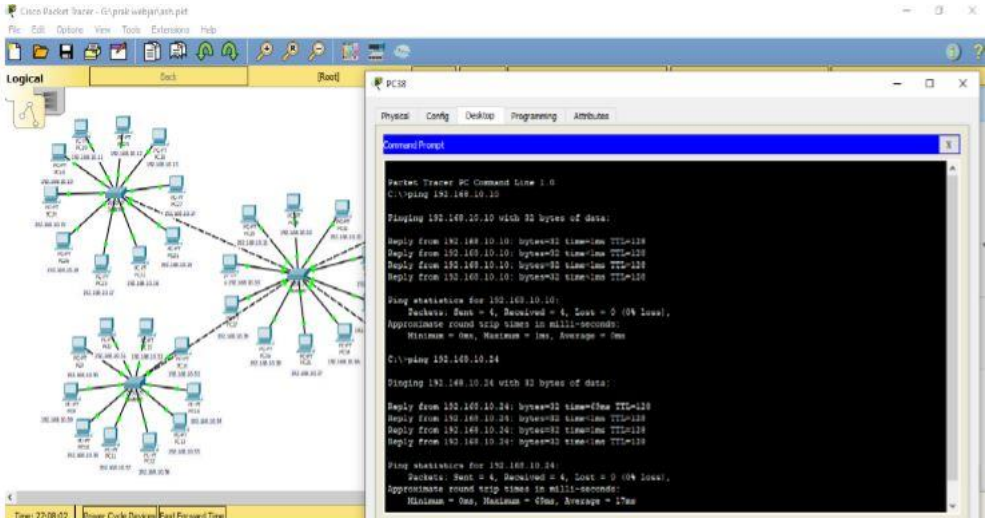
1. Make a design that consists of 5 switches connected to each other, and each switch consists of 10 pc. with an IP Address between 192.268.10.10 to 192.268.10.60.











5 switches. Each switch consists of 10 workstations. Each of which has an IP 192.168.10.10-192.168.10.60

Can be seen all workstations connected succesfull (ping).

It would be more effective if there is a router device, so that IP can be configured via DHCP.