CS361

LABORATORY 1

NAME:

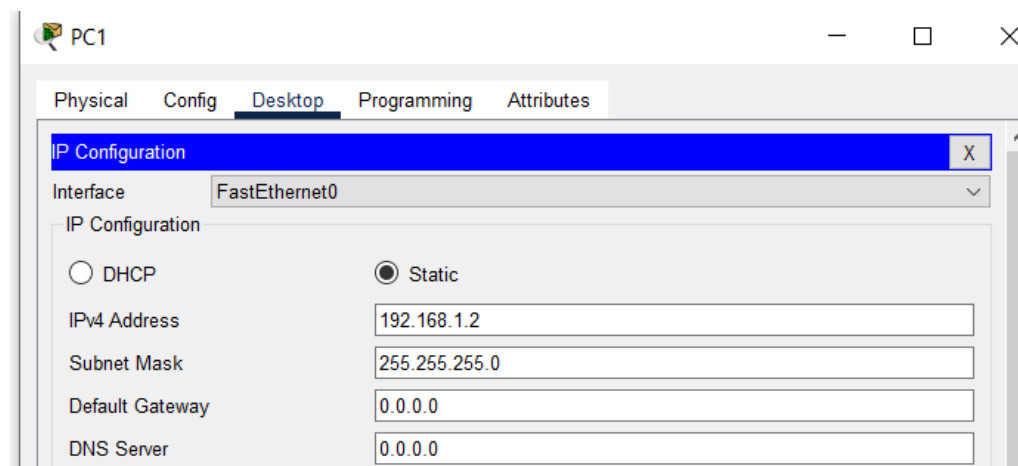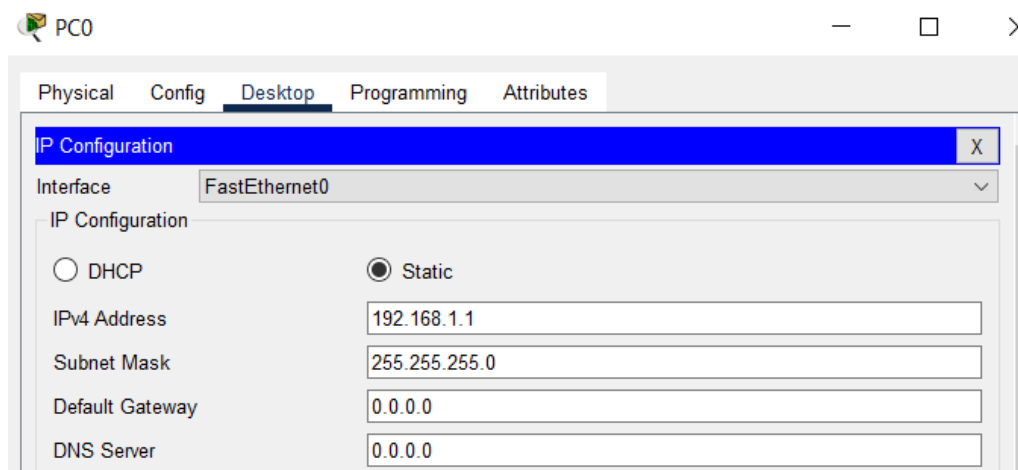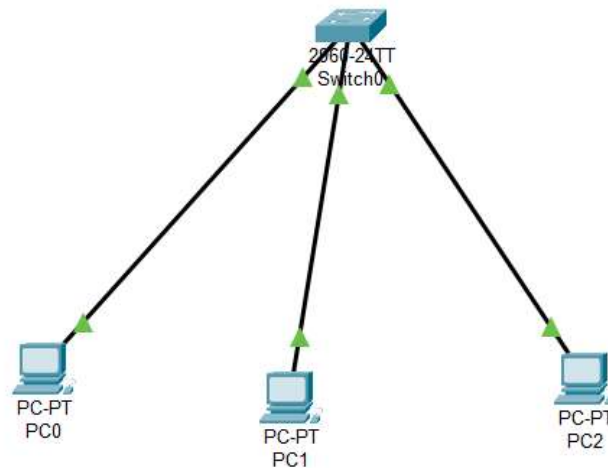ARCHIT AGRAWAL

ROLL NO. :

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SECTION:

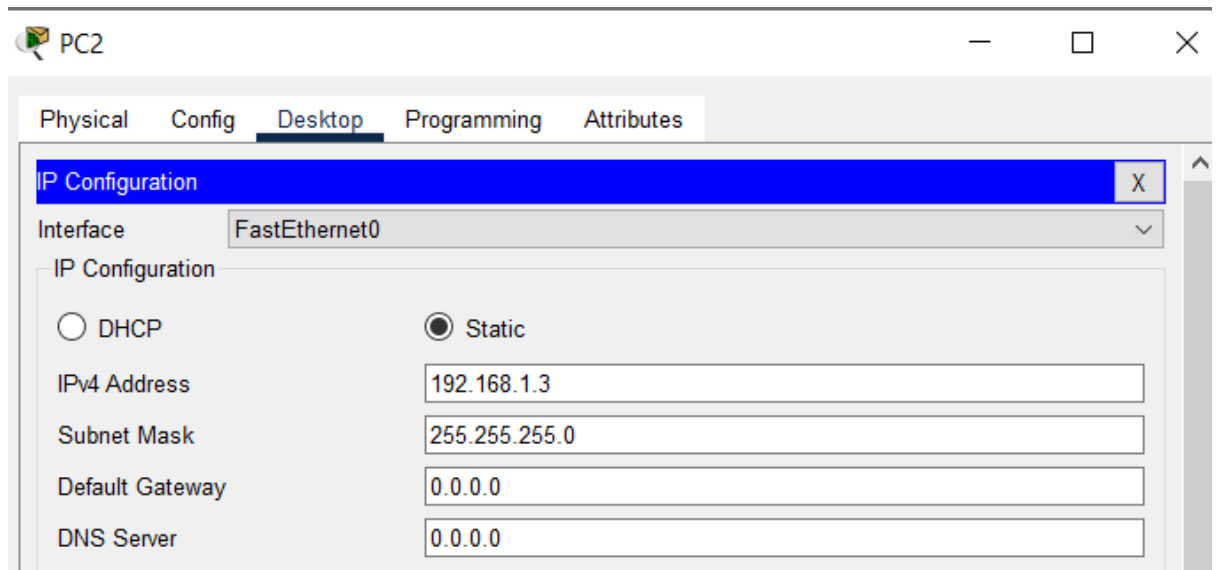 2B

1. Write the differences between switch and hub?

Hub is a networking device which is used to transmit the signal to each port (except one port) to respond from which the signal was received.

Switch is a network device which is used to enable the connection establishment and connection termination on the basis of need.

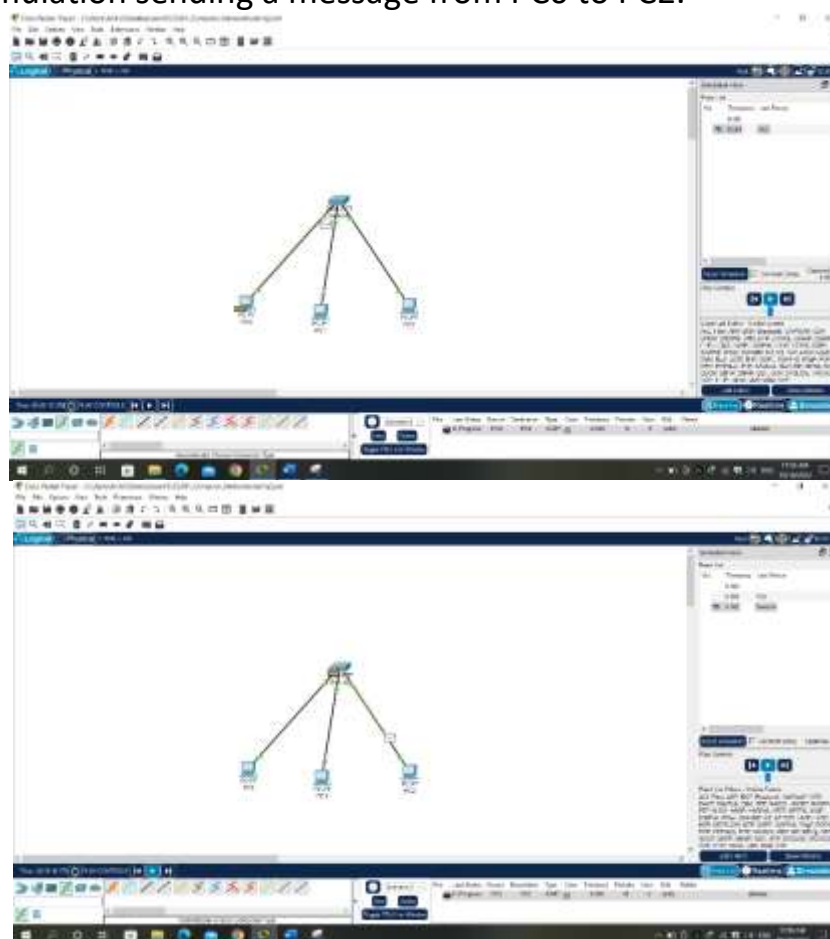| *Hub*	*Switch*
Hub is operated on the Physical layer of the OSI model.	The switch is operated on the Data link layer of OSI Model.
Hub is a broadcast type transmission.	While switch is a Unicast, multicast and broadcast type transmission.
Hub cannot be used as a repeater.	The switch can be used as a repeater.
Hub is a half-duplex transmission mode.	Switch is a full duplex transmission mode.

2. Create a small network using a switch and show that the message transferred from one end device to other is successful.
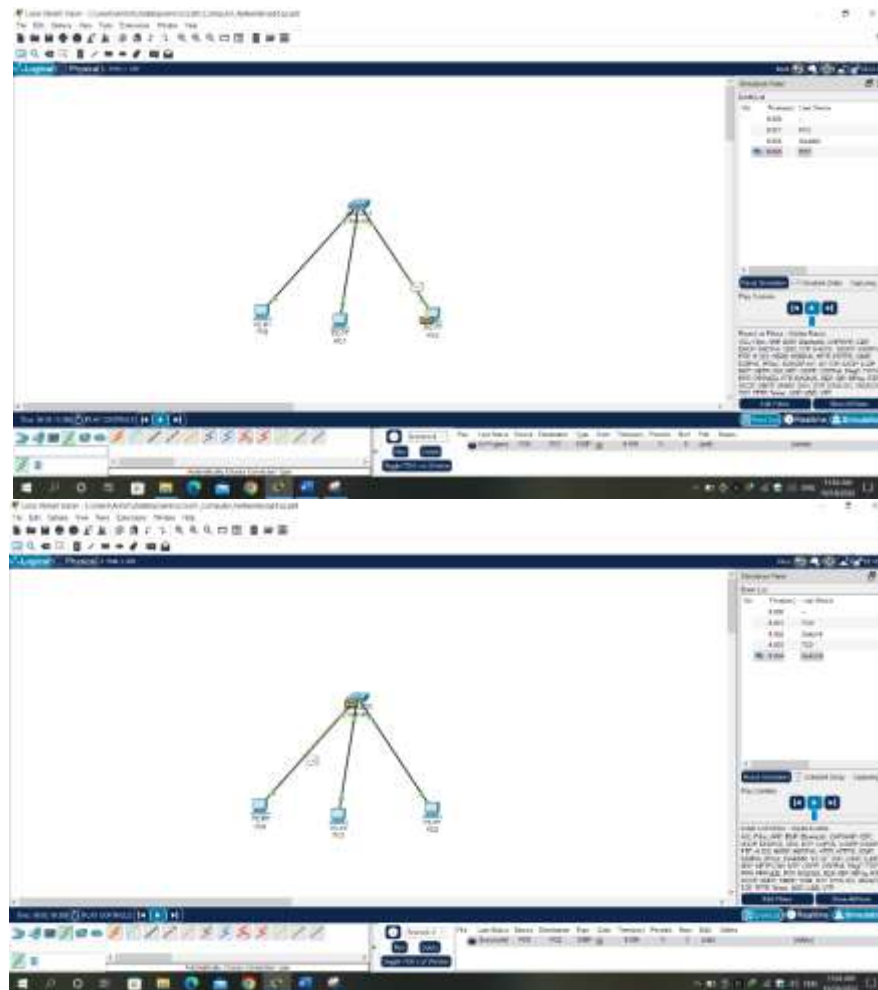
Switch can unicast, multicast and broadcast messages as it stores a MAC address table.

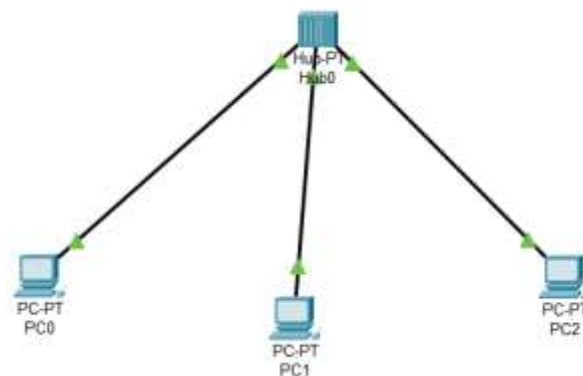Using Simulation sending a message from PC0 to PC2.

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3. **Create a small network using a hub and show that the message transferred from one end device to other is successful**.

IP configuration is same as Q2.

Hubs broadcast each message.

Using Simulation sending a message from PC0 to PC2.

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