

# IT CN 303 - LAB

SUBMITTED BY ADITYA SINGH 2K19/EP/005

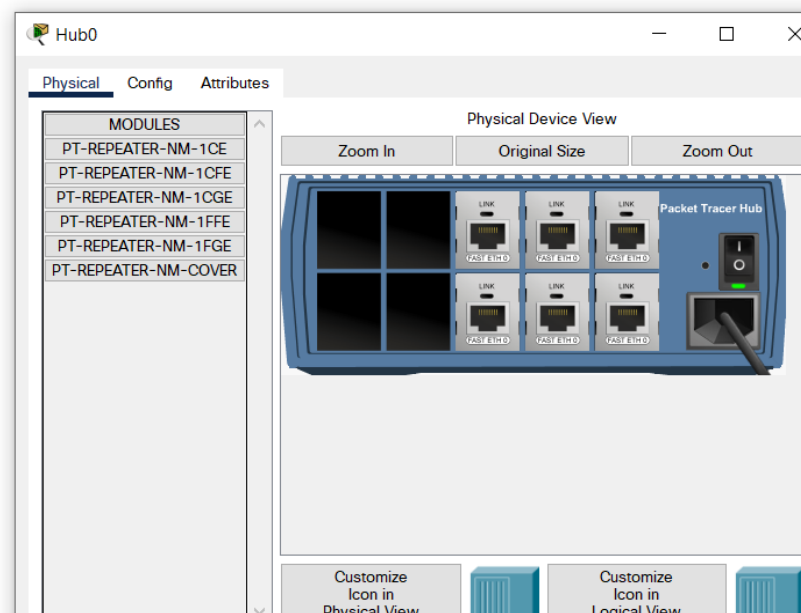
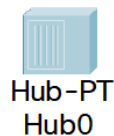
## Experiment : Build a local area network (LAN) with HUB using Cisco Packet Tracer.

### Hub

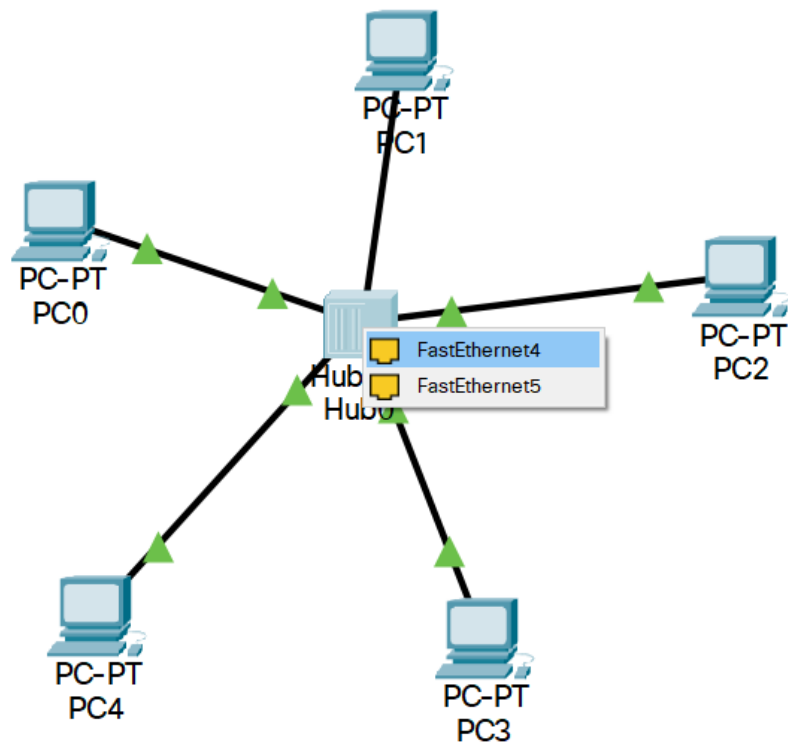
1. also known as Network Hub, used is Star Topology.
2. works at the physical layer of the OSI model.
3. used to set-up the LAN.
4. has multiple ports.
5. When a packet arrives at one port, it is copied to the other port so that all segments of the LAN can see all packets.

### Steps for Cisco Packet Tracer :

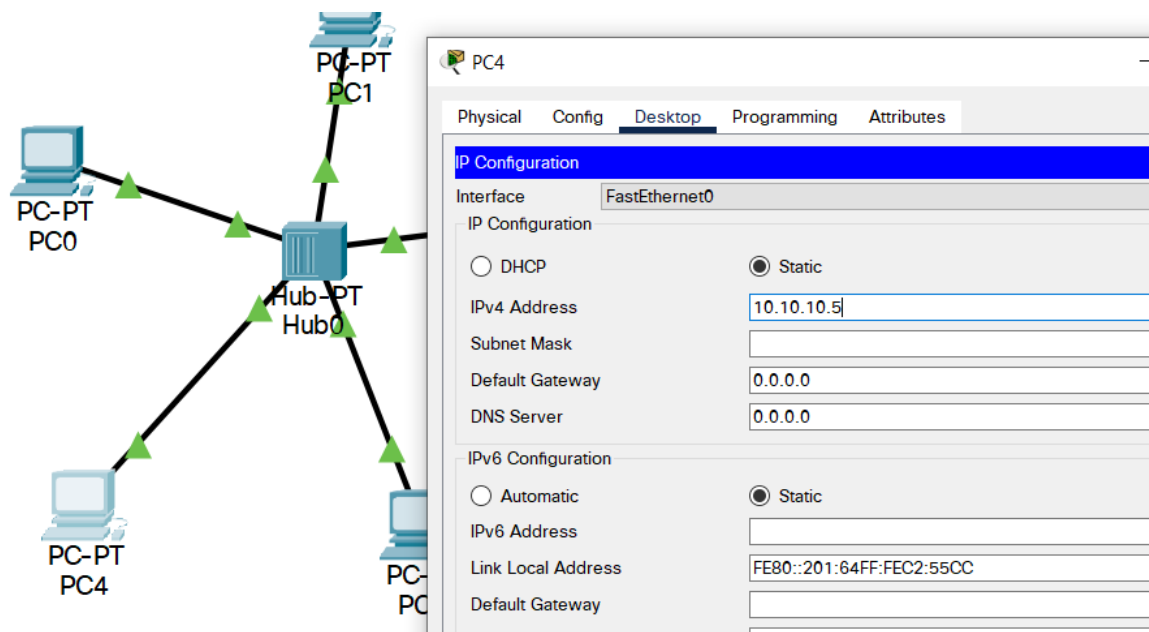
1. Add HUB in the workspace.



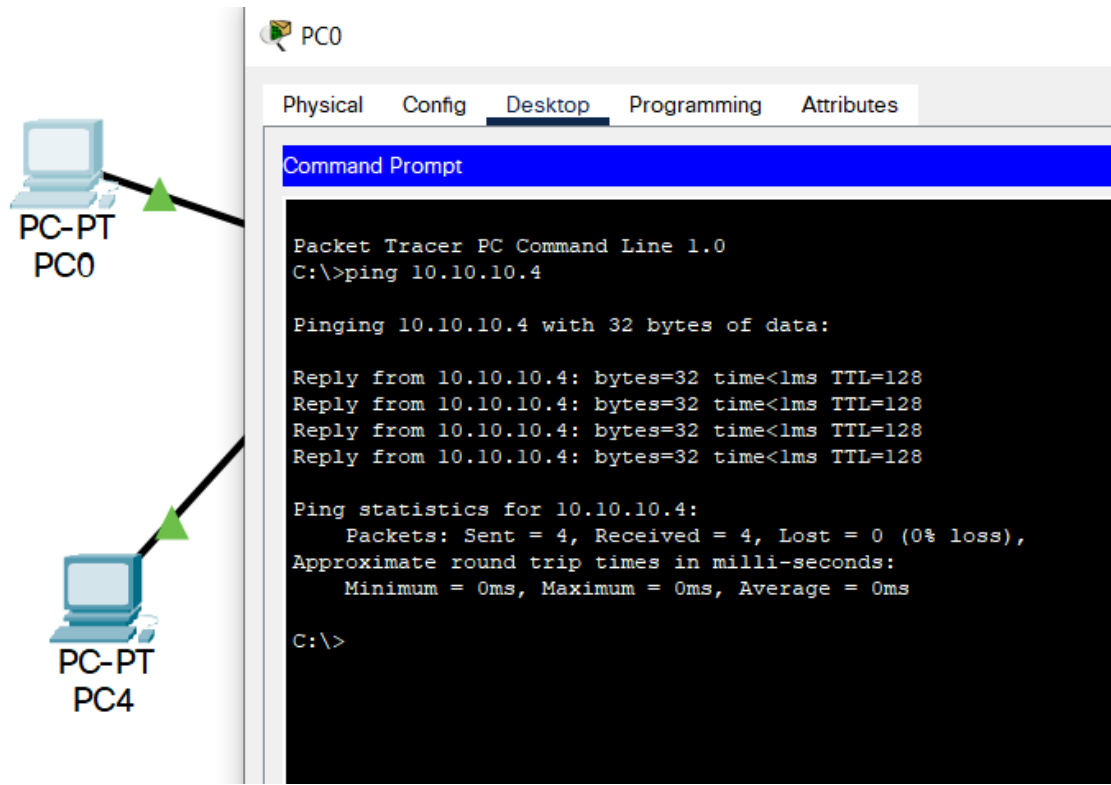
2. Connect 5 computers with FastEthernet Port to the hub.



3. Assign IP address to all computers

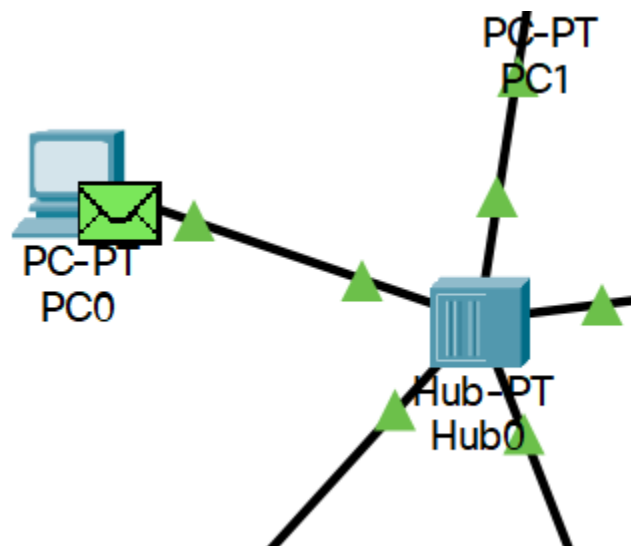


4. To verify the connection, try to ping 5th computer from the 1st computer.

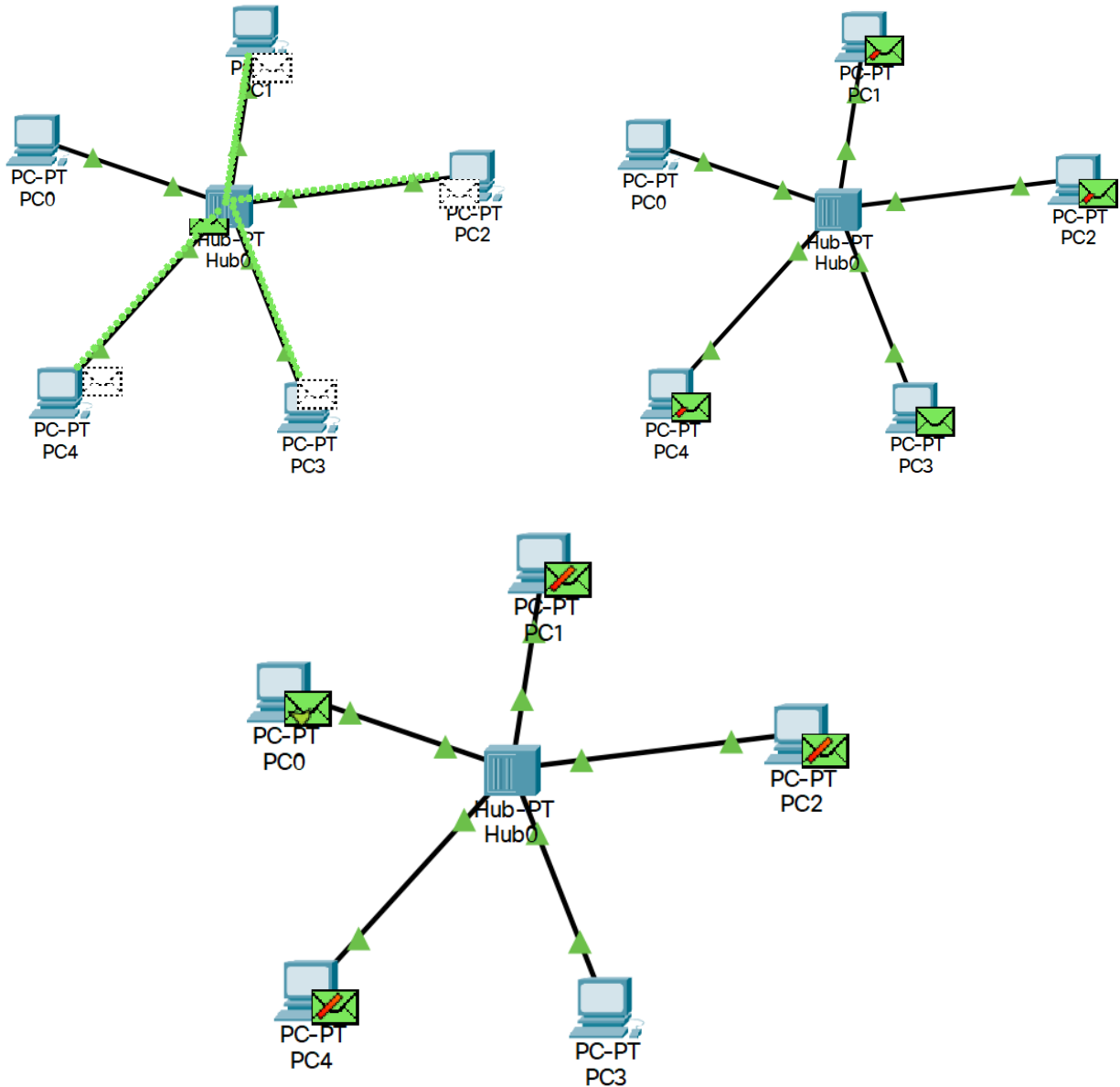


5. Enter simulation mode, and send a packet (simple PDU) from any PC.

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	In Progress	PC0	PC3	ICMP		0.000	N	0	(edit)	



- Hub will send messages to all computers. Everyone rejects message except the specific receiver we sent the message to.



- Message is delivered successfully.

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC3	ICMP		0.000	N	0	(edit)	