IT CN 303 - LAB

SUBMITTED BY ADITYA SINGH 2K19/EP/005

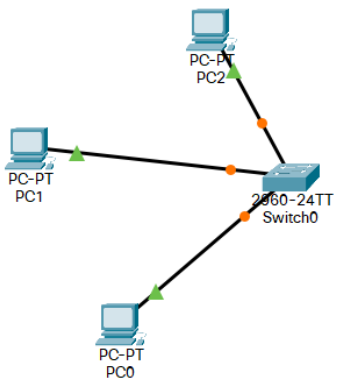
Experiment : Build an Inter-LAN communication using Cisco Packet Tracer.

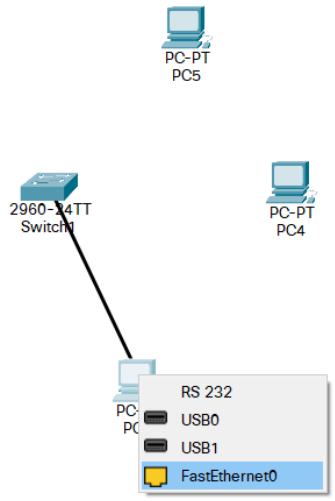
Router

1. Connects two or more different LANs.
2. It is a layer 3 (Network Layer) device.
3. Stores routing table
4. Inevitable device on the internet.

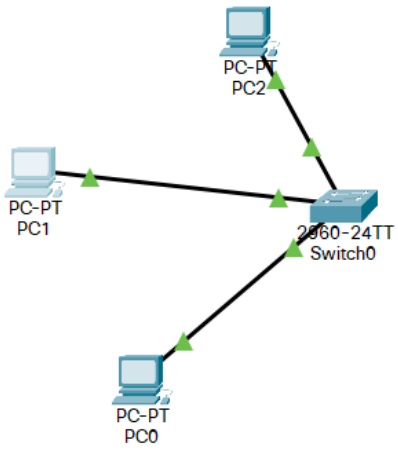
Steps for Cisco Packet Tracer :

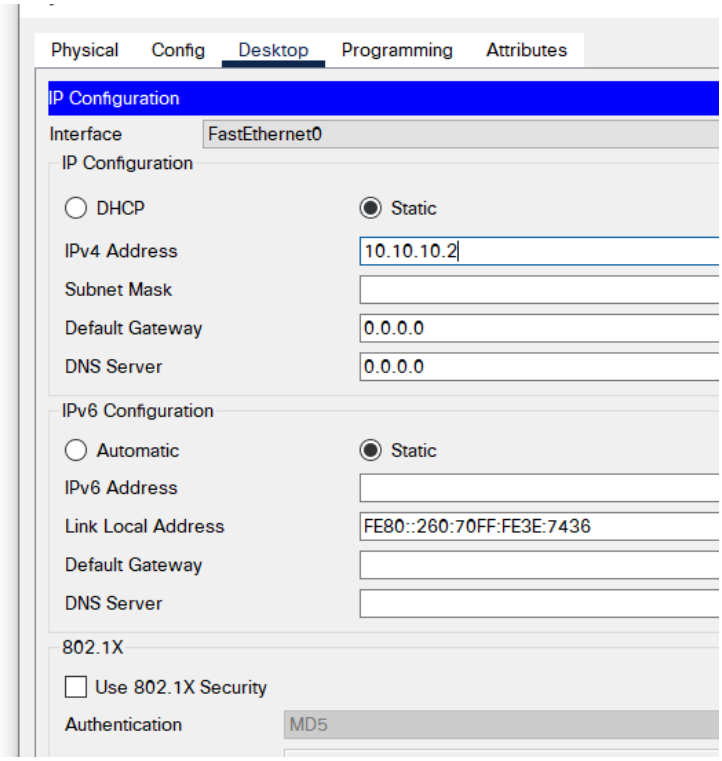
1. **Connect PCs with Switch with FastEthernet port using copper straight-through cable.**



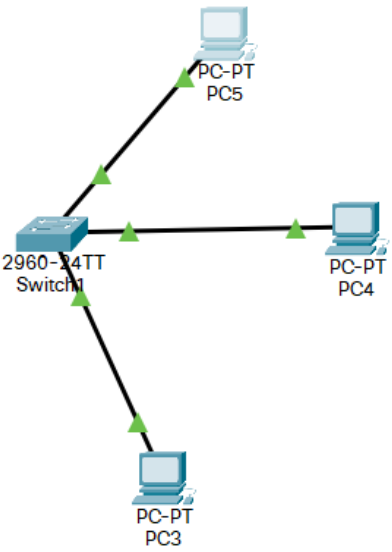


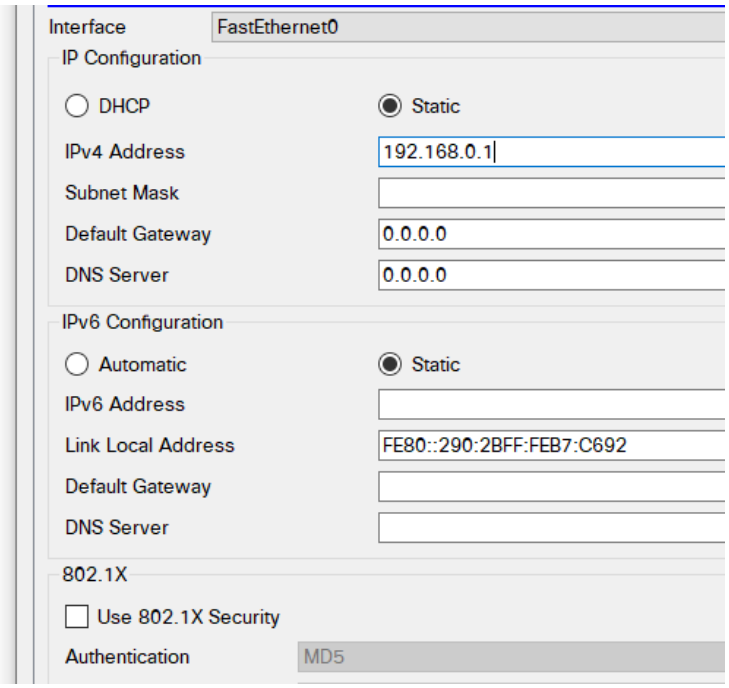
2. **Assign IP address to first switch LAN.**



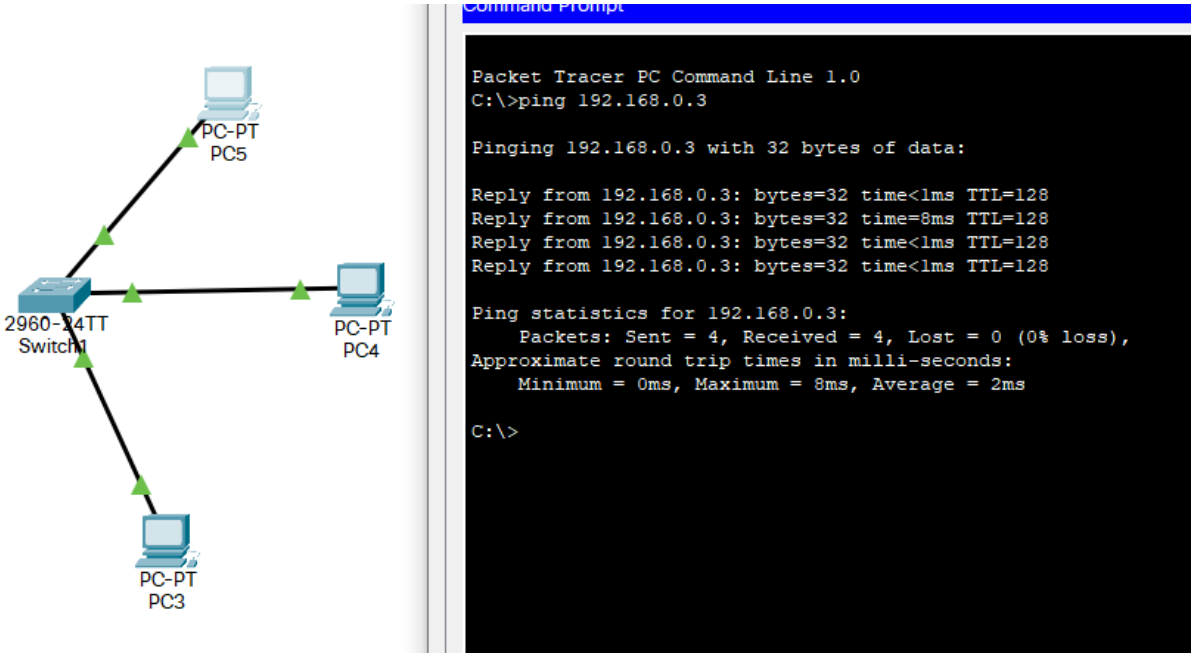


3. **Assign IP address to second switch LAN.**

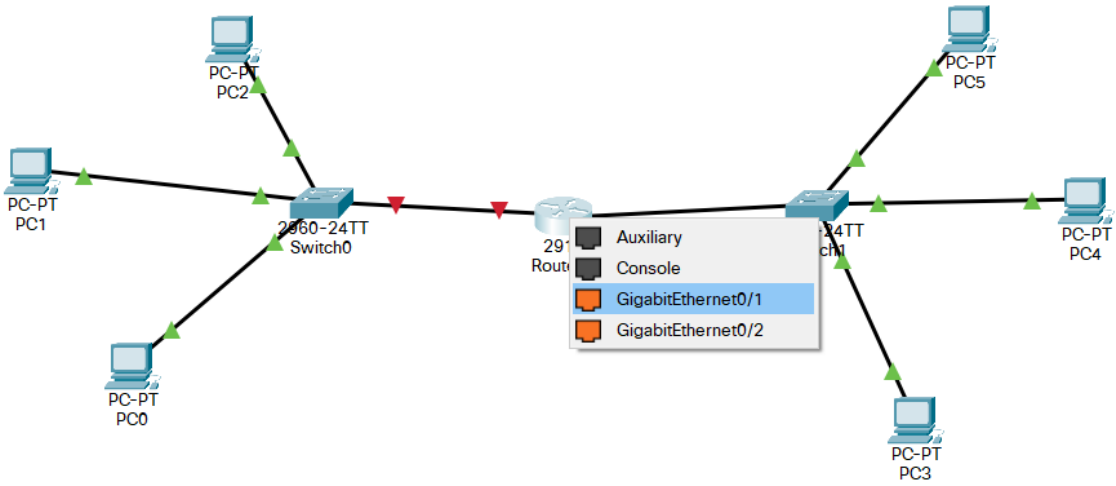




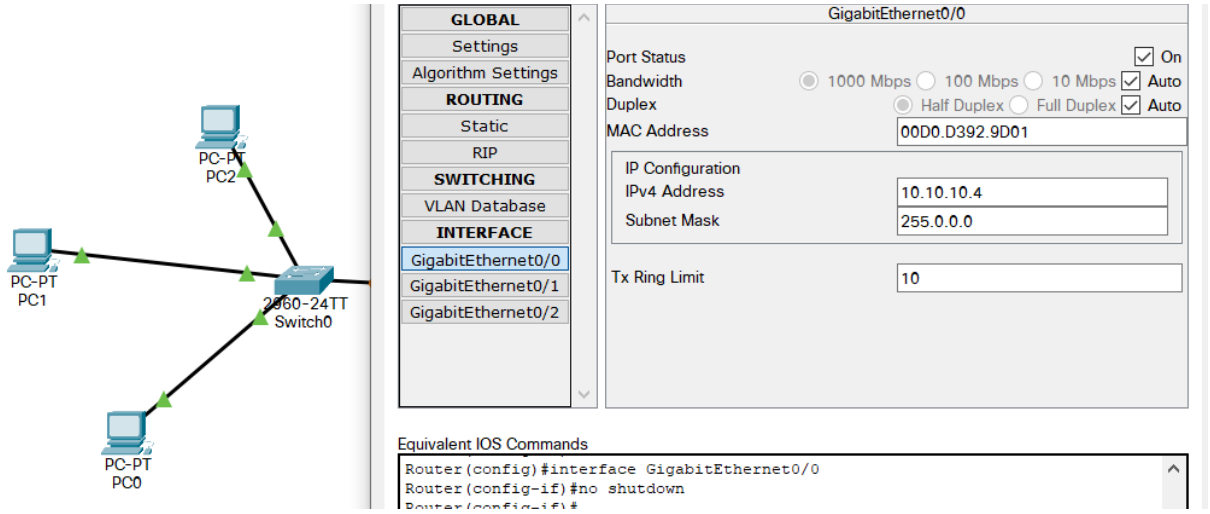
4. To verify the connection, try to ping one PC to other inside one LAN.



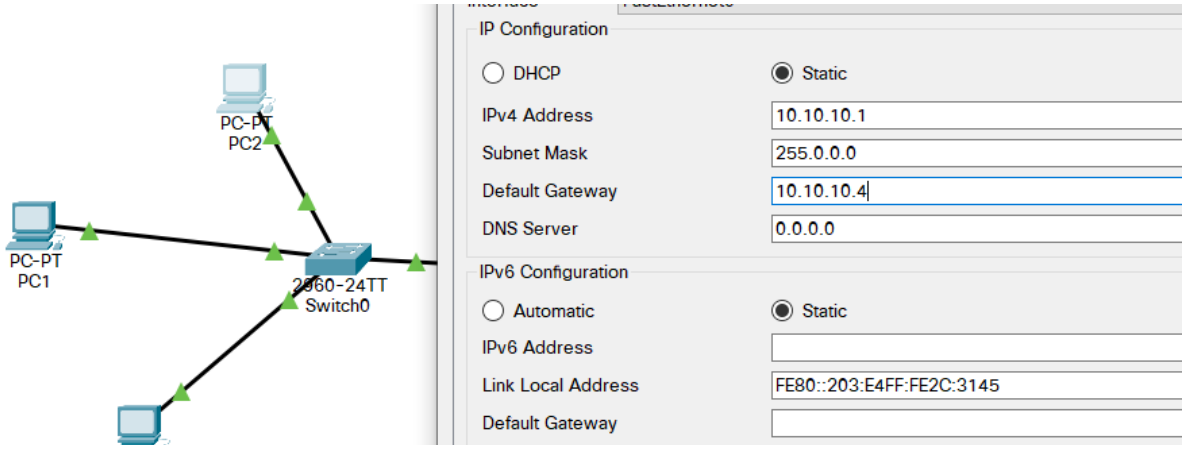
5. Connect a 2911 Router with GigabitEthernet Port.



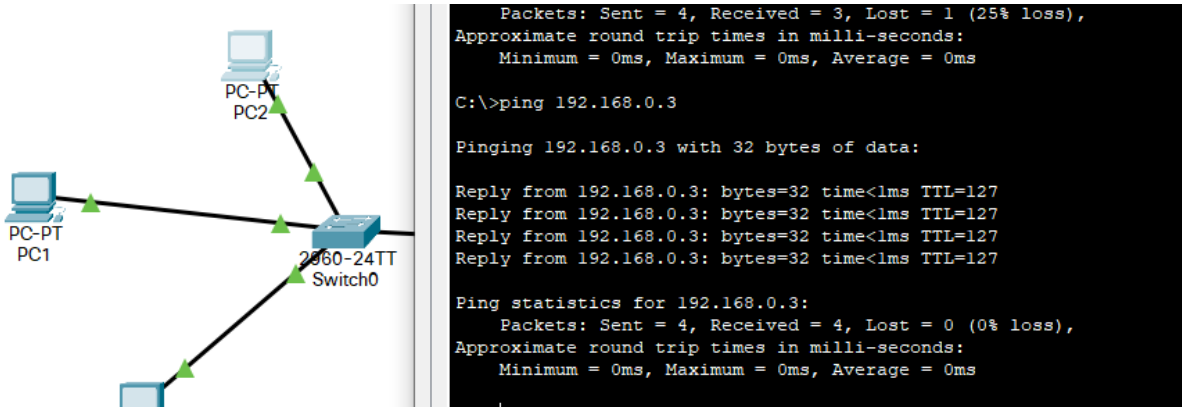
6. **Turn on the Router and assign individual IP addresses to their LANs.**



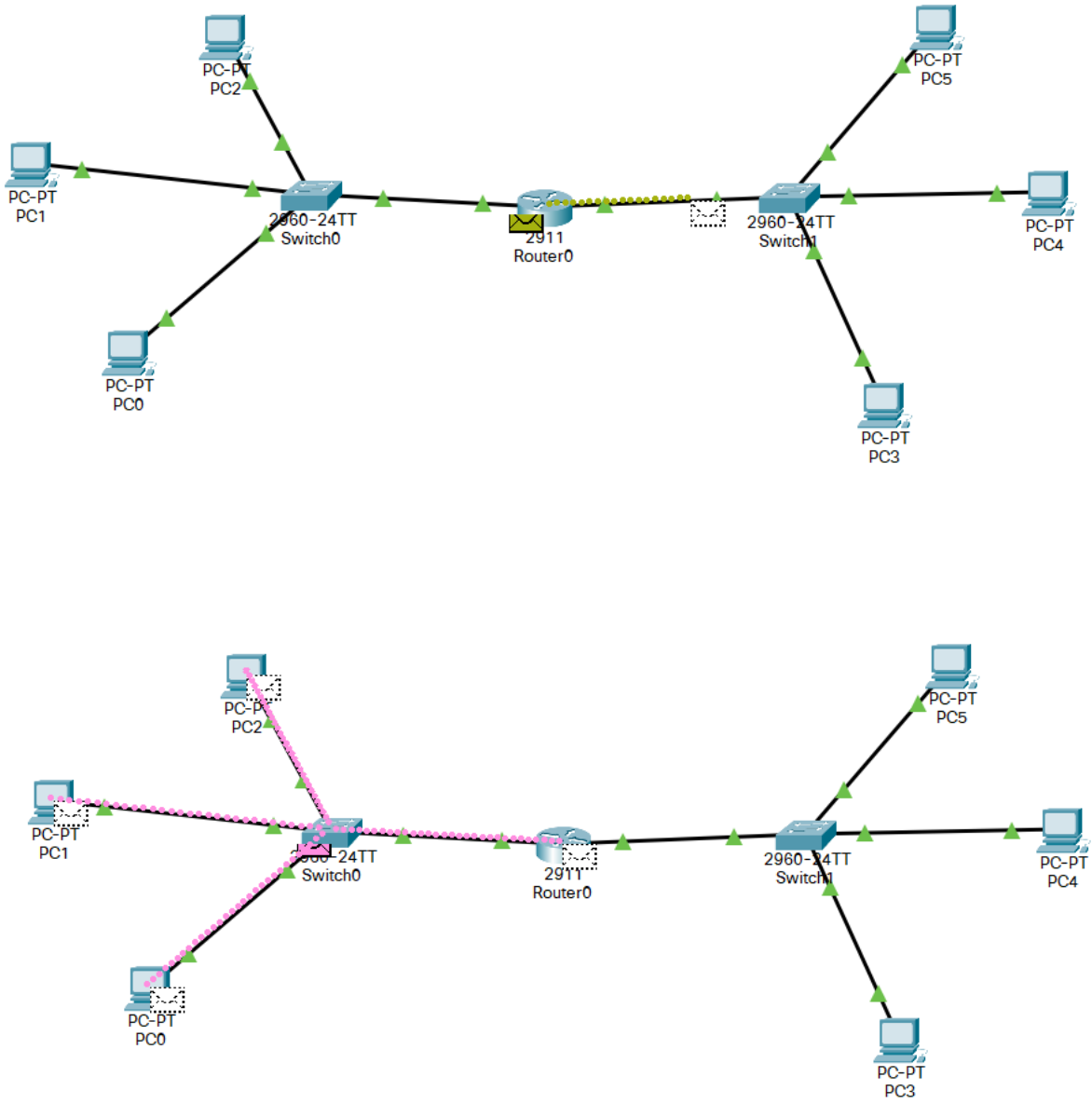
7. **Assign default gateway to each PC of LAN same as IP of assigned Router.**



8. **Ping one PC of one LAN to another PC of the second LAN.**



9. **Run Simulation by sending a packet message.**



10. **Message is delivered successfully.**

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC1	PC3	ICMP		0.000	N	0	(edit)	