CAP 276: DATA COMMUNICATION AND NETWORKING LABORATORY

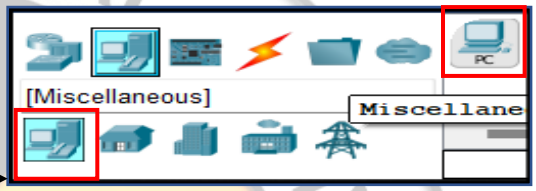
CONTINUOUS ASSESSMENTS (C.A)-2

ST_NAME: - EKHLAKH AHMAD
REG NO.: - 12209166
ROLL NO.: - RD2215B67
SECTION: - D2215
GROUP: - 2

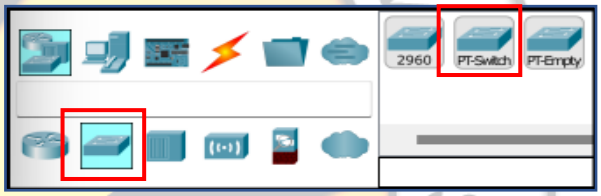
Q.1. Demonstrate the implementation of routing using simulation mode with network ID- 192.162.40.20 and 192.162.50.30.

Process: -

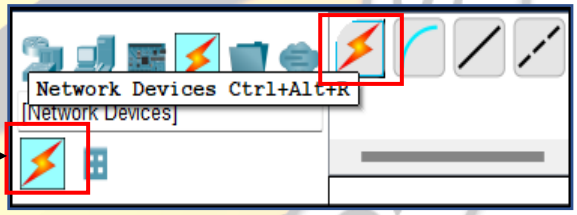
- Open Cisco packet tracer.
- Select PC



- Draw three PC the blank area.
- Select Switch "PT-switch".

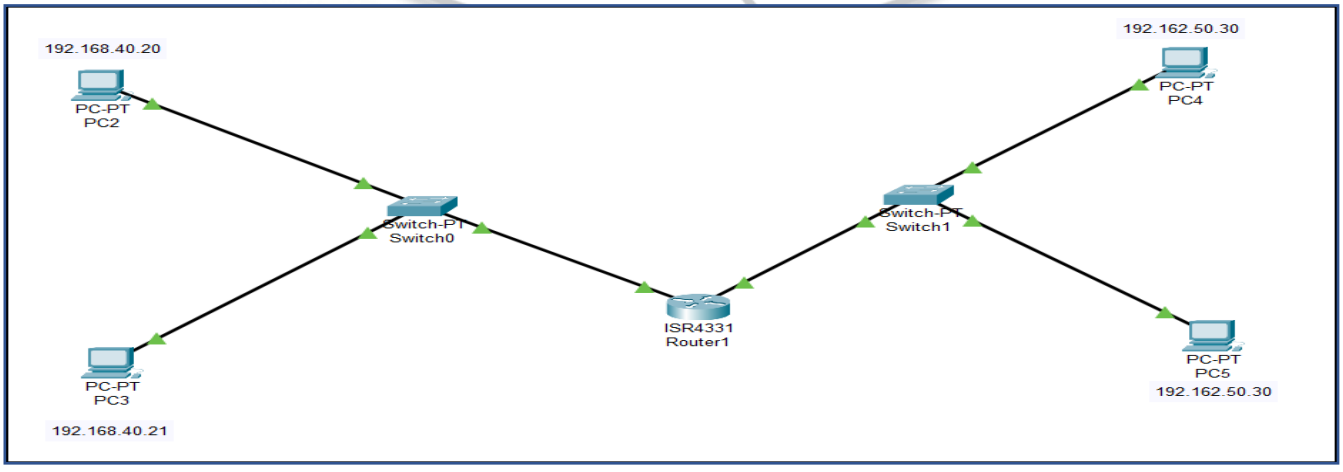


- Draw one switch.
- Select Wired.
- Connect PC to Switch with wired.

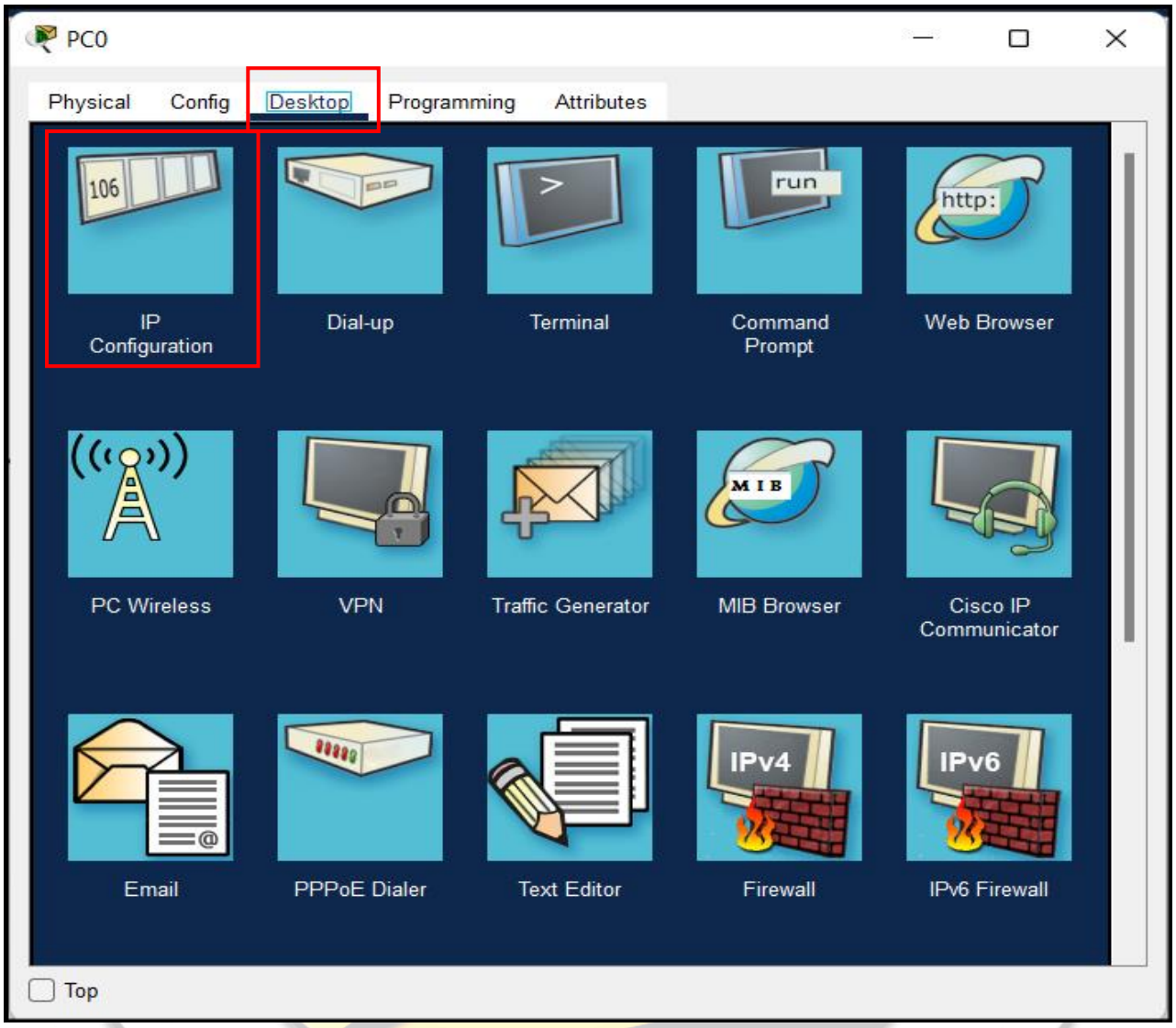


- Again, repeat same process on right side.
- Select router.

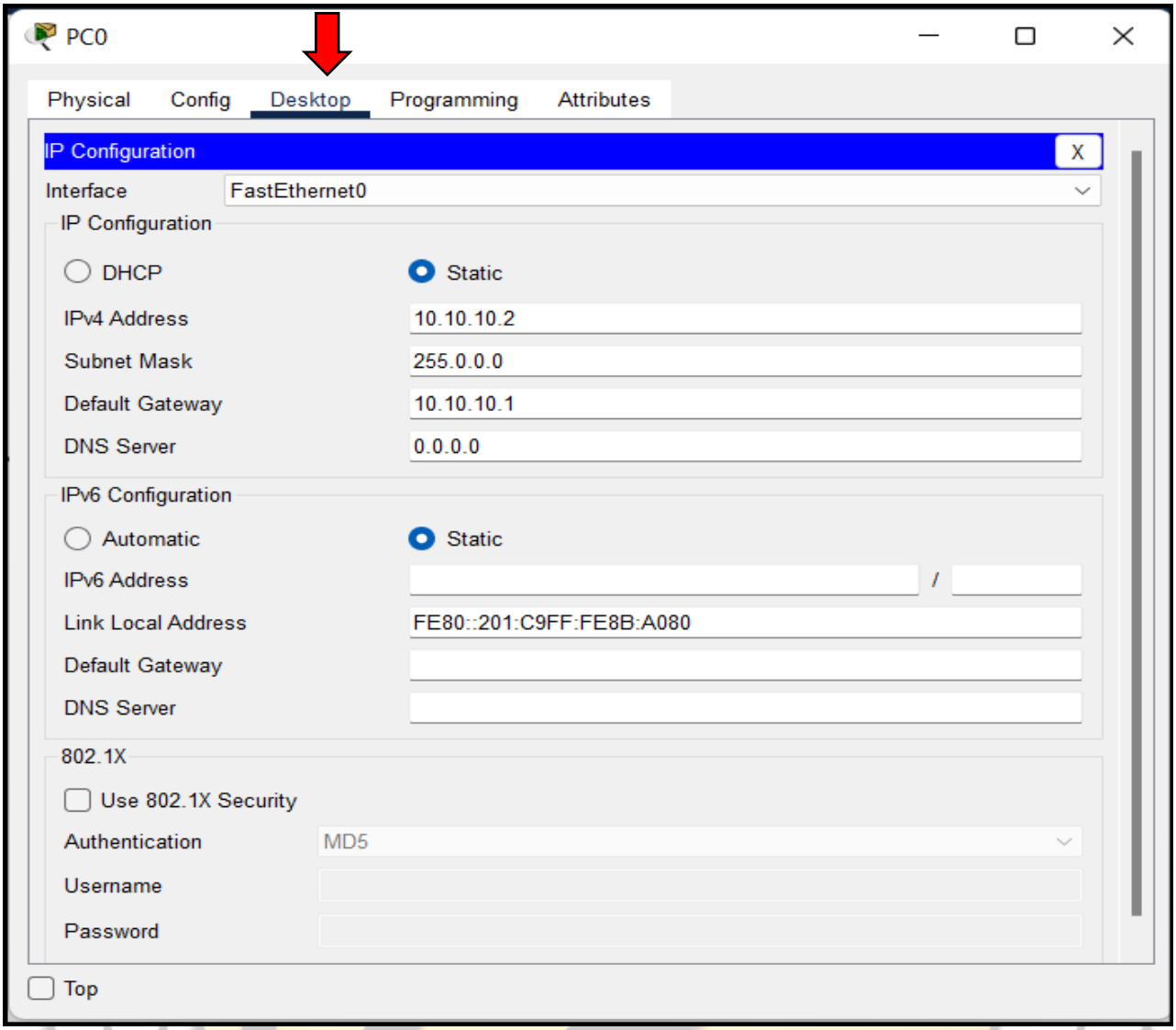
- Draw router blank area.
- Connect router with two Switch.



- Click on PC.
- Then a dialog box will be open.

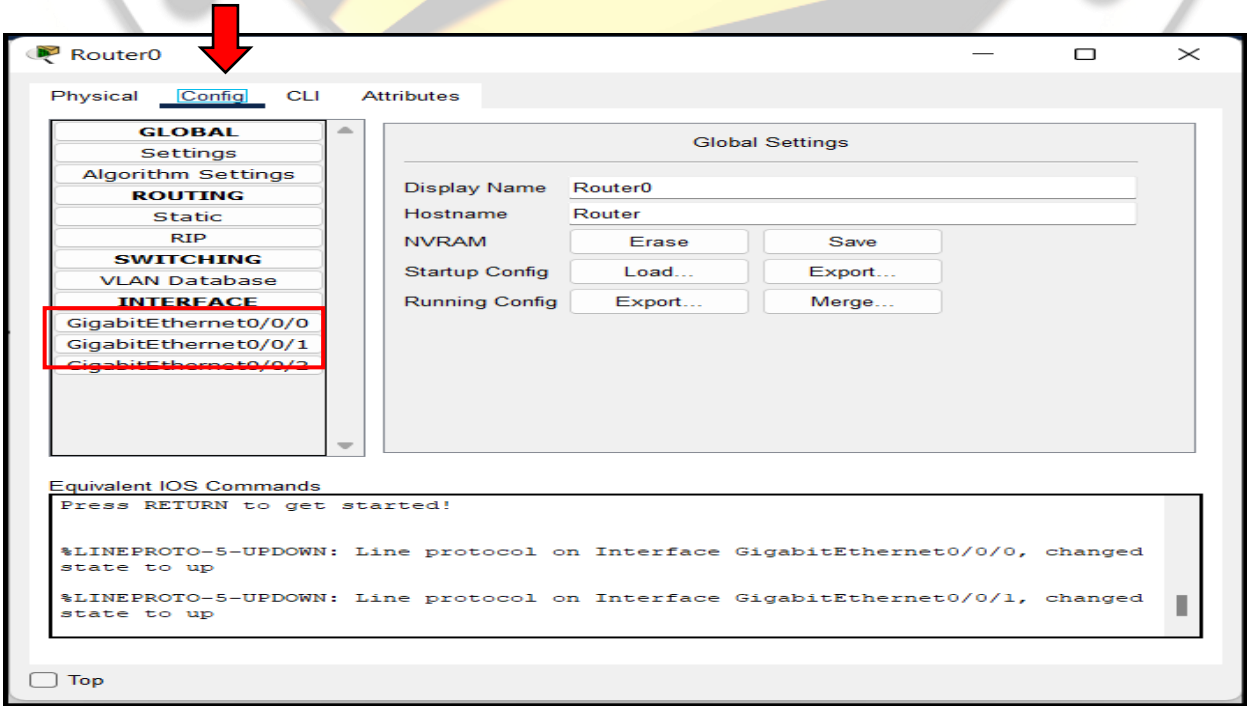


- Click on Desktop Tab.
- Click on IP Configuration.
- Check Static radio button.
- Click on IPv4 and enter IP address
- Press Enter key.
- Automatically enter Subnet Mask.
- All PC inter IP address & MAC address assign.

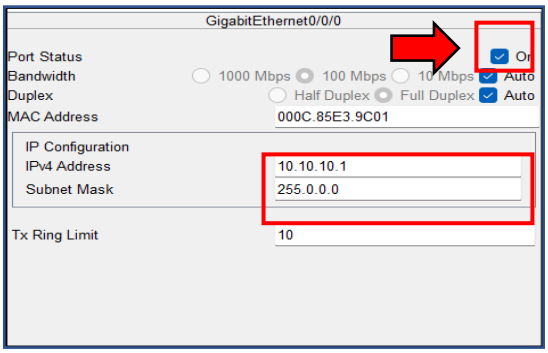


☞ Click on router.

☞ Then a dialog box open.



Click on Config.

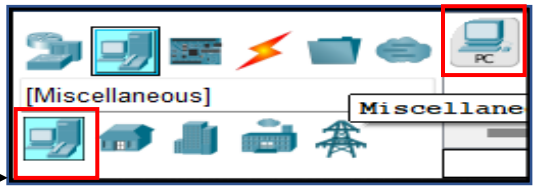


- Again, click on GigabitEthernet0/0/0
- Click on IPv4 and type IP address.
- Again, click on GigabitEthernet0/0/1
- Click “on” checkbox.
- Select PDU.
- Click on any one PC and click on another PC.
- Click on simulation.
- Click on Play button.

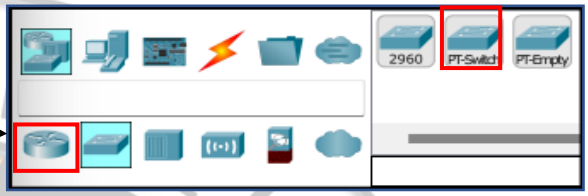
Q.2 Design a network consisting of ring, mesh and tree topology using switch with network ID- 195.20.40.10.

Process: -

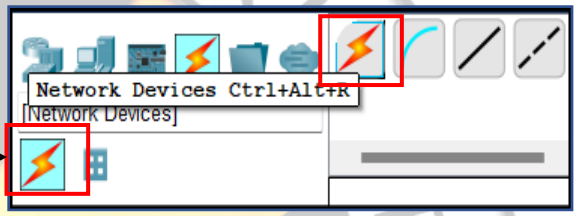
- Open Cisco packet tracer.
- Select PC



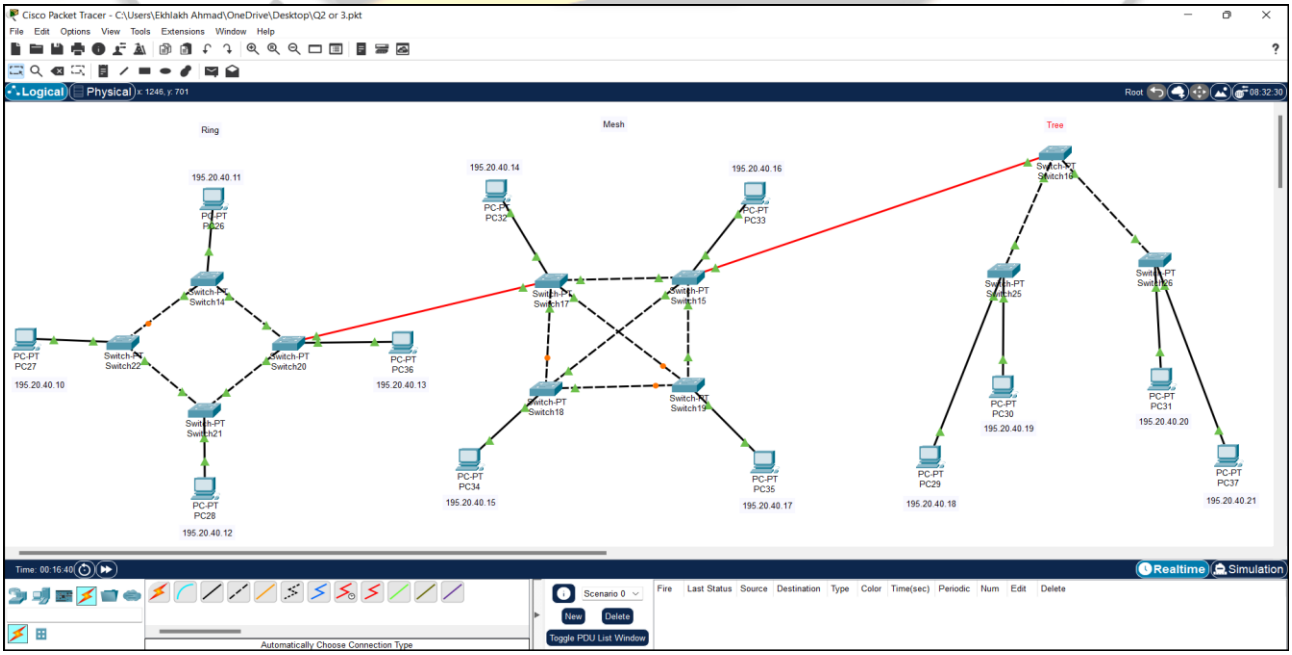
- Draw four PC the blank area. (Ring shape)
- Select Switch “PT-switch”.



- Draw four Switch. (Ring Shape)
- Select Wired.
- Connect PC to Switch with wired.



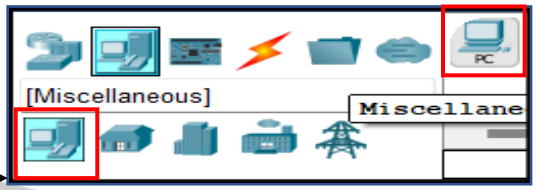
- Connect Switch to Switch.
- Again, draw four PC and four Switch on the right side of the Ring.
- Again, draw four PC and two Switch on the right side of the Mesh.
- Connect Switch to Switch each other.
- Assign IP Address with 195.20.40.10.
- Send PD and Simulation.



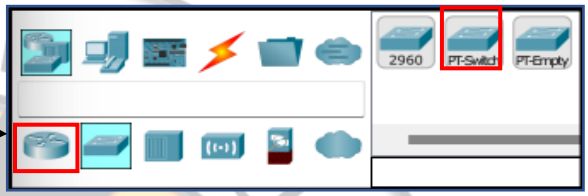
Q.3. Consider and design lab1 (192.162.60.10) and lab2 (192.168.80.20) with star and bus topology respectively. Demonstrate how these labs will be able to share data with each other in simulation mode.

Process: -

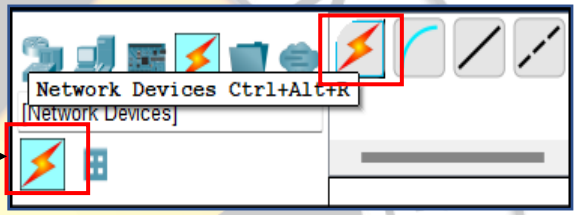
- ☞ Open Cisco packet tracer.
- ☞ Select PC



- ☞ Draw four PC the blank area. (Star shape)
- ☞ Select Switch "PT-switch".



- ☞ Draw one Switch.
- ☞ Select Wired.
- ☞ Connect PC to Switch with wired.



- ☞ Draw four PC on right side of Star. (shape bus).