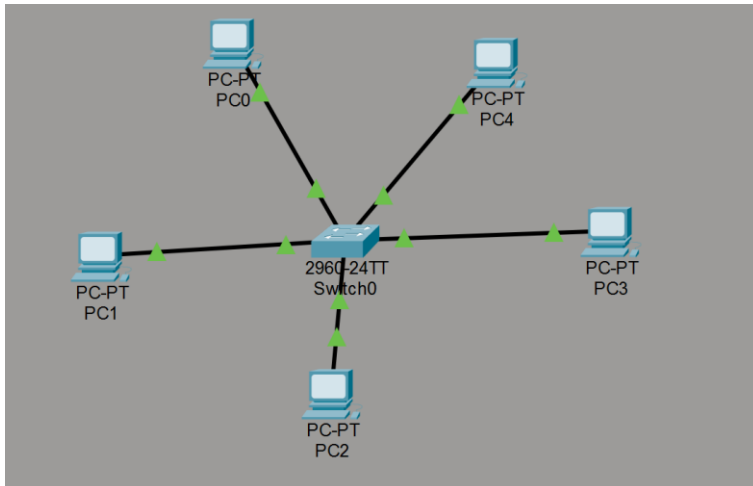


Question 2) Simulation of Star Topology using Packet Tracer



Step 1: Open Packet Tracer

- Launch Cisco Packet Tracer
- Click on Logical Workspace

Step 2: Add Devices

1. From Network Devices -> Switches, drag a **2960-24TT Switch** to the workspace.
2. From End Devices, drag five generic PCs (**PC-PT**) to the workspace surrounding the switch. (These will be automatically named PC0, PC1, PC2, PC3, and PC4).

Step 3: Connect the Devices

1. Click Connections.
2. Select the **Copper Straight-Through** cable (solid black line).
3. Connect PC0 (FastEthernet0) to the Switch (FastEthernet0/1).
4. Repeat the process to connect all remaining PCs (PC1, PC2, PC3, PC4) to available FastEthernet ports on the central Switch using Straight-Through cables.

Step 4: Assign IP Address to PC0

1. Click PC0.
2. Go to Desktop inside the pc go to IP Configuration.
3. Enter:
 - IP Address: 10.10.10.1
 - Subnet Mask: 255.0.0.0
4. Close window.

Step 5: Assign IP Address to PC1

1. Click PC1.
2. Go to Desktop inside the pc go to IP Configuration.
3. Enter:
 - IP Address: 10.10.10.2
 - Subnet Mask: 255.0.0.0
4. Close window.

Step 6: Assign IP Address to PC2

1. Click PC2.
2. Go to Desktop inside the pc go to IP Configuration.
3. Enter:
 - IP Address: 10.10.10.3
 - Subnet Mask: 255.0.0.0
4. Close window.

Step 7: Assign IP Address to PC3

1. Click PC3.
2. Go to Desktop inside the pc go to IP Configuration.
3. Enter:
 - IP Address: 10.10.10.4
 - Subnet Mask: 255.0.0.0
4. Close window.

Step 8: Assign IP Address to PC4

1. Click PC4.
2. Go to Desktop inside the pc go to IP Configuration.
3. Enter:
 - IP Address: 10.10.10.5
 - Subnet Mask: 255.0.0.0
4. Close window.

Step 9: simulate the model and check the connectivity

use the PDU tool to send a packet from PC0 to PC3 to verify connection through the switch