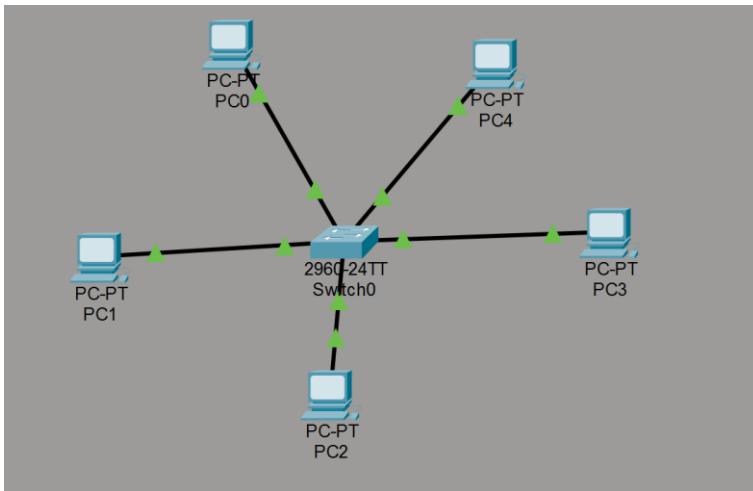


## Question 2) Simulation of Star Topology using Packet Tracer



### 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:
  - o IP Address: 10.10.10.3
  - o 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:
  - o IP Address: 10.10.10.4
  - o 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:
  - o IP Address: 10.10.10.5
  - o 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*