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EX NO:5B DATE:14.8.24

DESIGN A SIMPLE TOPOLOGY USING CISCO PACKET TRACER

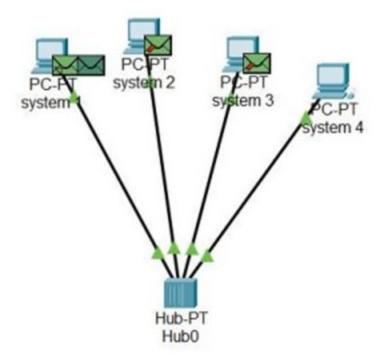
AIM:

To design and analyse the behavior of networking devices using cisco packet tracer Simulator.

4Generic PCs and One Hub:

- 1. Open Cisco Packet Tracer.
- 2. Place Devices: Drag and drop 4 PCs and 1 Hub onto the workspace.
- 3. Connect Devices:
 - Use a copper straight-through cable.
 - Connect each PC to the Hub's ports.
- 4. Configure IP Addresses:
 - Click on each PC, go to the Desktop tab, and select IP Configuration.
- Assign a unique IP address and subnet mask to each PC (e.g., 192.168.1.1/24, 192.168.1.2/24, etc.).
- 5. Verify Connectivity:
 - Open the Command Prompt on each PC.
 - Use the ping command to test connectivity between PCs (e.g., ping 192.168.1.2).

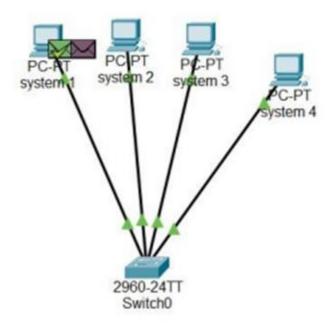
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4 Generic PCs and One Switch:

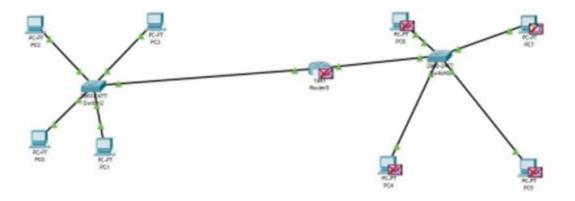
- 1. Open Cisco Packet Tracer.
- 2. Place Devices: Drag and drop 4 PCs and 1 Switch onto the workspace.
- 3. Connect Devices:
 - Use a copper straight-through cable.
 - Connect each PC to the Switch's ports.
- 4. Configure IP Addresses:
 - Assign IP addresses to each PC as described above.
- 5. Verify Connectivity:
 - Use the ping command from each PC to test connectivity.

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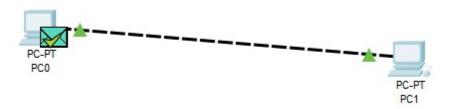
Connecting with Router:

- 1. Open Cisco Packet Tracer.
- 2. Place Devices: Drag and drop 4 PCs, 1 Switch, and 1 Router onto the workspace.
- 3. Connect Devices:
 - Connect PCs to the Switch using copper straight-through cables.
- Connect the Switch to the Router using a copper straight-through cable (typically use FastEthernet or GigabitEthernet interfaces).
- 4. Configure IP Addresses:
 - On each PC, assign an IP address within the same subnet.
- On the Router, assign IP addresses to the router's interfaces connected to the Switch and configure routing if necessary.
- 5. Verify Connectivity:
 - Use the ping command from PCs to test connectivity through the Router.
 - Ensure the router's interfaces are correctly configured with IP addresses.



Peer-to-Peer Connection:

- 1. Open Cisco Packet Tracer.
- 2. Place Devices: Drag and drop 2 PCs onto the workspace.
- 3. Connect Devices:
 - Use a copper crossover cable to directly connect the two PCs.
- 4. Configure IP Addresses:
 - Assign IP addresses in the same subnet to each PC (e.g., 192.168.1.1/24 and 192.168.1.2/24).
- 5. Verify Connectivity:
 - Use the ping command to test connectivity between the two PCs.



RESULT:

A simple topology connections using cisco packet tracer is studied and designed successfully.