Course Code: CL-1000	Course: Introduction to Information and Communication Technology (IICT)
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Task: Create a Star Topology and Send Data Using Simulation Mode.
Instructions:

1. Open Cisco Packet Tracer.
2. Add Devices:

- From the Network Devices section:
    - Drag 1 switch (e.g., 2960-24TT Switch).
- From the End Devices section:
    - Add 2 PCs (PC-PT).
    - Add 2 Laptops (Laptop-PT).

3. Arrange Devices:

- Place the switch in the center.
- Position the PCs and laptops around the switch.

4. Connect Devices using FastEthernet:

- Use Copper Straight-Through cables for the connections:
    - PC6 → Switch FastEthernet0/1
    - PC7 → Switch FastEthernet0/2
    - Laptop0 → Switch FastEthernet0/3
    - Laptop1 → Switch FastEthernet0/4

5. Configure IP Addresses:

- On each PC/Laptop:
    - Go to Desktop → IP Configuration.
- Assign the following IP addresses:
    - PC1: 192.168.1.3
    - PC2: 192.168.1.4
    - Laptop1: 192.168.1.5
    - Laptop2: 192.168.1.6

6. Test Connectivity with Ping:

- Switch to Real-Time Mode.
- On PC1:
    - Go to Command Prompt and type:
      ping 192.168.1.5

- Check the ping reply to ensure the connection is working.
- Repeat the ping command on other devices (PC2 and Laptops) to ping other devices. For example:
    - On Laptop0, ping PC2:
      ping 192.168.1.4

7. Simulate Data Transmission in Simulation Mode:

- Switch to Simulation Mode (click the stopwatch icon at the bottom-right corner of Packet Tracer).
- On PC1, go to Command Prompt and type:
  ping 192.168.1.5

- Observe the packet flow in the Simulation Window. Ensure the ping is successful.

8. Take Screenshots:

- Take screenshots of:
    1. The complete topology with FastEthernet connections visible.
    2. Command Prompt output showing successful pings between multiple devices.
    3. Packet flow during simulation mode.

9. Submit in a Word File:

- Open Microsoft Word and create a new document.
- Insert all the screenshots in the Word file in the following order:
- Topology screenshot with FastEthernet connections.
- Command Prompt output screenshots (from pings on multiple devices).
- Simulation mode screenshot.