

Ex. Nos. 4		DESIGN A SIMPLE TOPOLOGY USING CISCO PACKET TRACER
Date :	29-07-25	

AIM: To establish simple topology using nodes

PROCEDURE:

Step 1: Open Cisco Packet Tracer

- Launch the Cisco Packet Tracer application on your system.

Step 2: Add Devices to Workspace

- Drag and drop the following devices:
 - 2 PCs (PC0, PC1)
 - 1 Laptop (Laptop0)
 - 1 Printer (Printer0)
 - 1 Switch (2960-24TT)

Step 3: Connect Devices

- Use **Copper Straight-through cables** to connect:
 - Each end device (PCs, Laptop, Printer) to the Switch.
- Verify green link lights appear on both ends.

Step 4: Assign IP Addresses

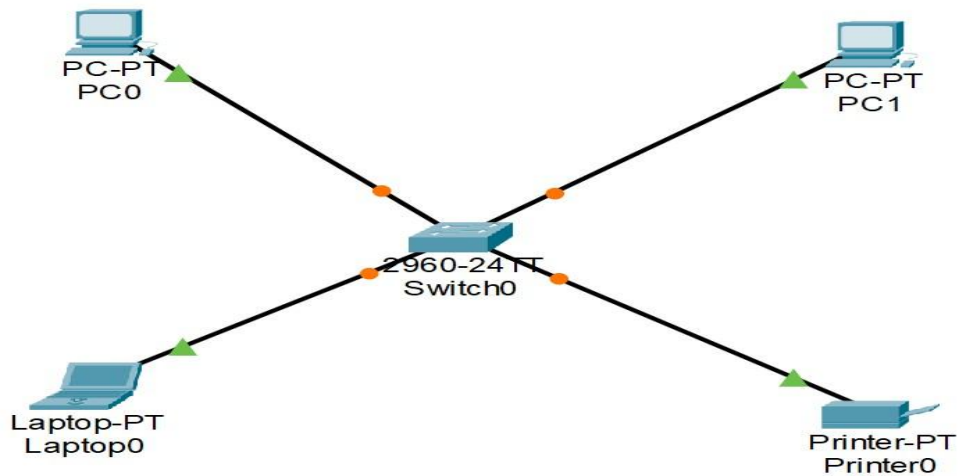
- Click on each device → Desktop tab → IP Configuration.
- Assign static IP addresses as per the IP table defined.

Device Name	IP Address	Subnet Mask	Default Gateway
PC0	192.168.0.2	255.255.255.0	192.168.1.1
PC1	192.168.0.3	255.255.255.0	192.168.1.1
Laptop0	192.168.0.4	255.255.255.0	192.168.1.1
Printer0	192.168.0.5	255.255.255.0	192.168.1.1

Step 5: Verify Connectivity

- Use the ping command from one device to another:
 - Example: ping 192.168.0.3 from PC0 to PC1.
- All pings should be successful.

BASIC SETUP USING CISCO PACKET TRACER:



OUTPUT:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.4

Pinging 192.168.0.4 with 32 bytes of data:

Reply from 192.168.0.4: bytes=32 time<1ms TTL=128
Reply from 192.168.0.4: bytes=32 time<1ms TTL=128
Reply from 192.168.0.4: bytes=32 time<1ms TTL=128
Reply from 192.168.0.4: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

RESULT: The star topology LAN was successfully implemented and verified with proper IP configuration and device connectivity using ping.

Ex. Nos. 5

**DESIGN A TOPOLOGY AND CONFIGURE WITH
SWITCHES AND PCs USING CISCO PACKET TRACKER**