

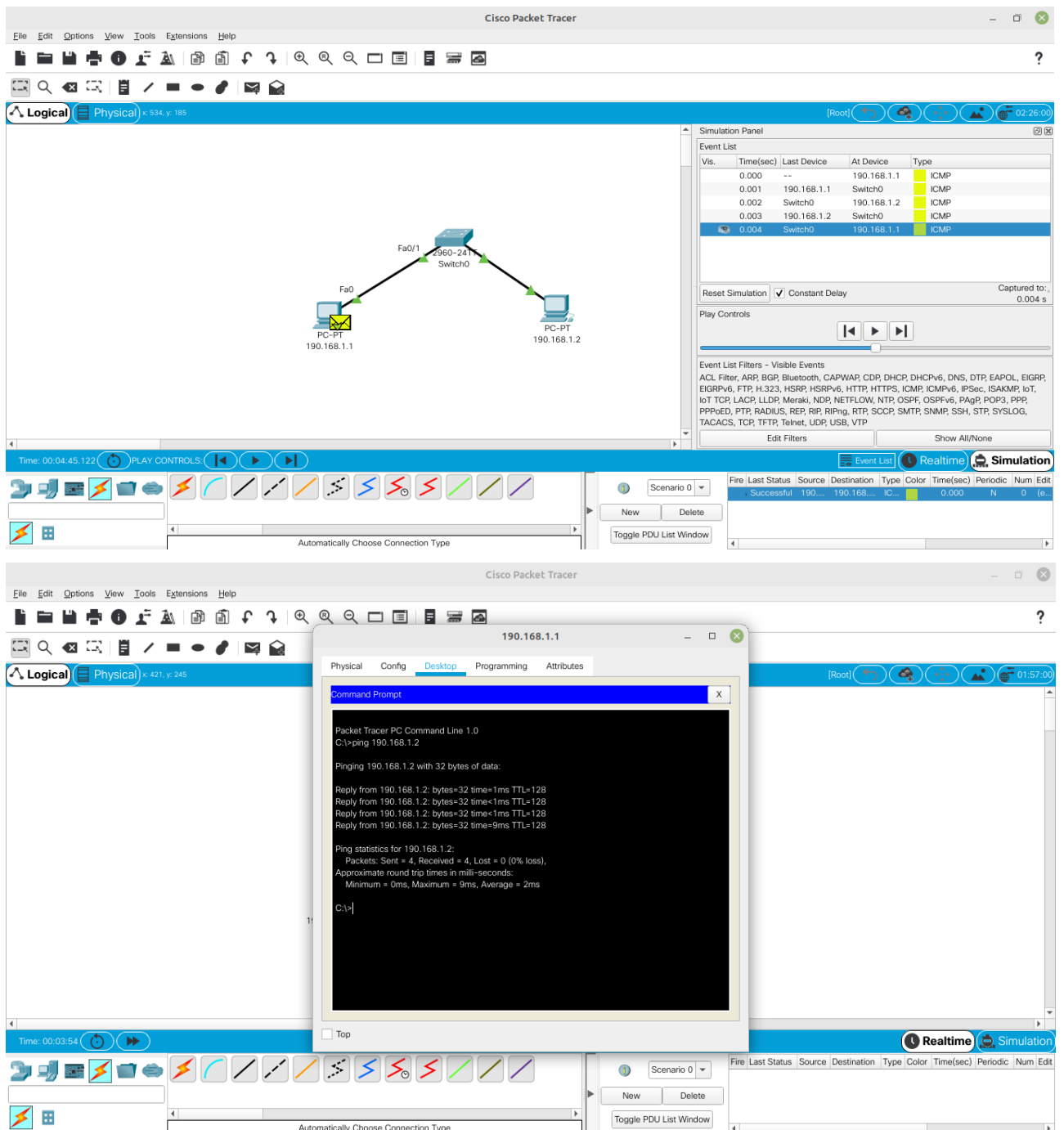
**Date: 02/08/2003**

Lab Practical #04:

Installation of Network Simulator (Packet Tracer) and Implement different LAN topologies.

### Practical Assignment #04:

1. Create a simple network with switch and two or more pc. Also check connectivity between them using ping command or PDU utility.



The screenshot displays the Cisco Packet Tracer interface. The main workspace shows a network topology with a central switch (Switch0) connected to two PCs (PC-PT1 and PC-PT2). The switch is labeled '960-241' and has ports Fa0/1 and Fa0/2. PC-PT1 has IP 190.168.1.1 and PC-PT2 has IP 190.168.1.2. The interface includes a menu bar (File, Edit, Options, View, Tools, Extensions, Help), a toolbar, and a status bar. On the right, the 'Simulation Panel' is open, showing an 'Event List' table with columns: Vis., Time(sec), Last Device, At Device, and Type. The table contains four entries for ICMP events. Below the table are 'Reset Simulation', 'Constant Delay', and 'Captured to:' options. The 'Play Controls' section includes a play button and a timeline. The 'Event List Filters - Visible Events' section lists various protocols. At the bottom, a 'Command Prompt' window is open, showing the output of a ping command from 190.168.1.1 to 190.168.1.2. The output shows four successful replies with varying times and TTL values. The 'Ping statistics for 190.168.1.2' section shows 4 packets sent, 4 received, and 0% loss. The 'Approximate round trip times in milli-seconds' section shows a minimum of 0ms, maximum of 9ms, and average of 2ms.

Vis.	Time(sec)	Last Device	At Device	Type
0.000	--	190.168.1.1	Switch0	ICMP
0.001	190.168.1.1	Switch0	190.168.1.2	ICMP
0.002	Switch0	190.168.1.2	Switch0	ICMP
0.003	190.168.1.2	Switch0	190.168.1.1	ICMP

```
Packet Tracer PC Command Line 1.0
C:\>ping 190.168.1.2

Pinging 190.168.1.2 with 32 bytes of data:

Reply from 190.168.1.2: bytes=32 time=1ms TTL=128
Reply from 190.168.1.2: bytes=32 time<1ms TTL=128
Reply from 190.168.1.2: bytes=32 time<1ms TTL=128
Reply from 190.168.1.2: bytes=32 time=9ms TTL=128

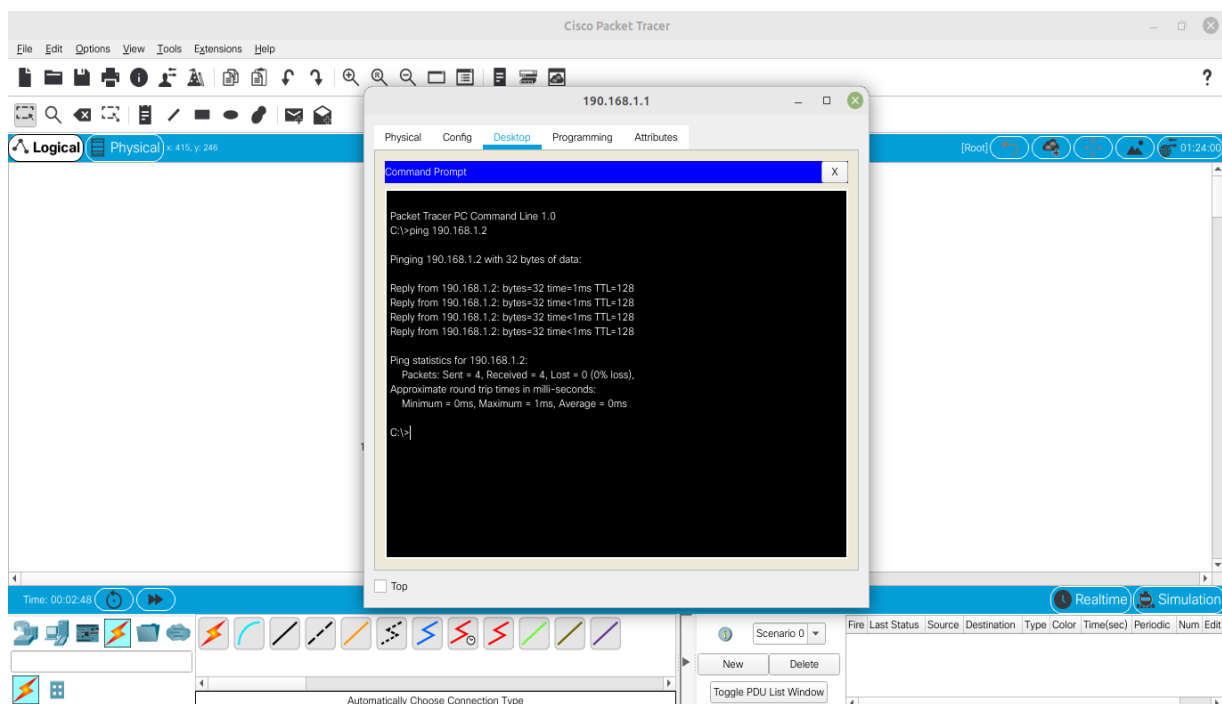
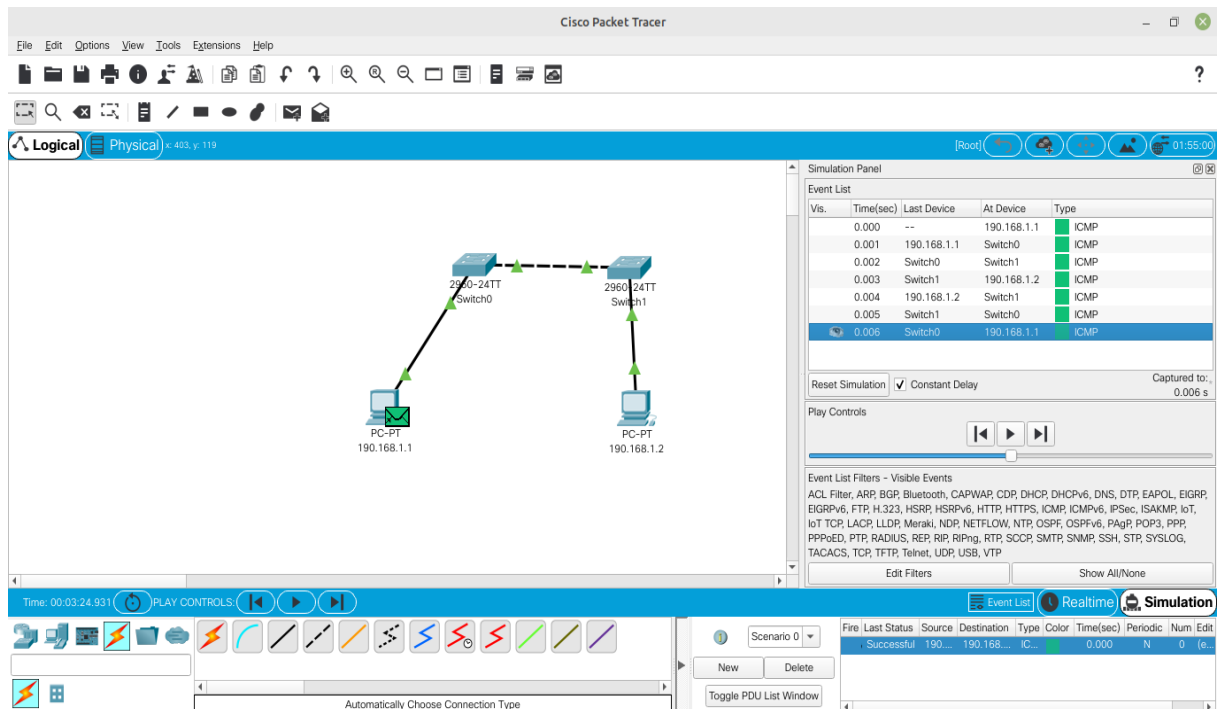
Ping statistics for 190.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 9ms, Average = 2ms

C:\>
```

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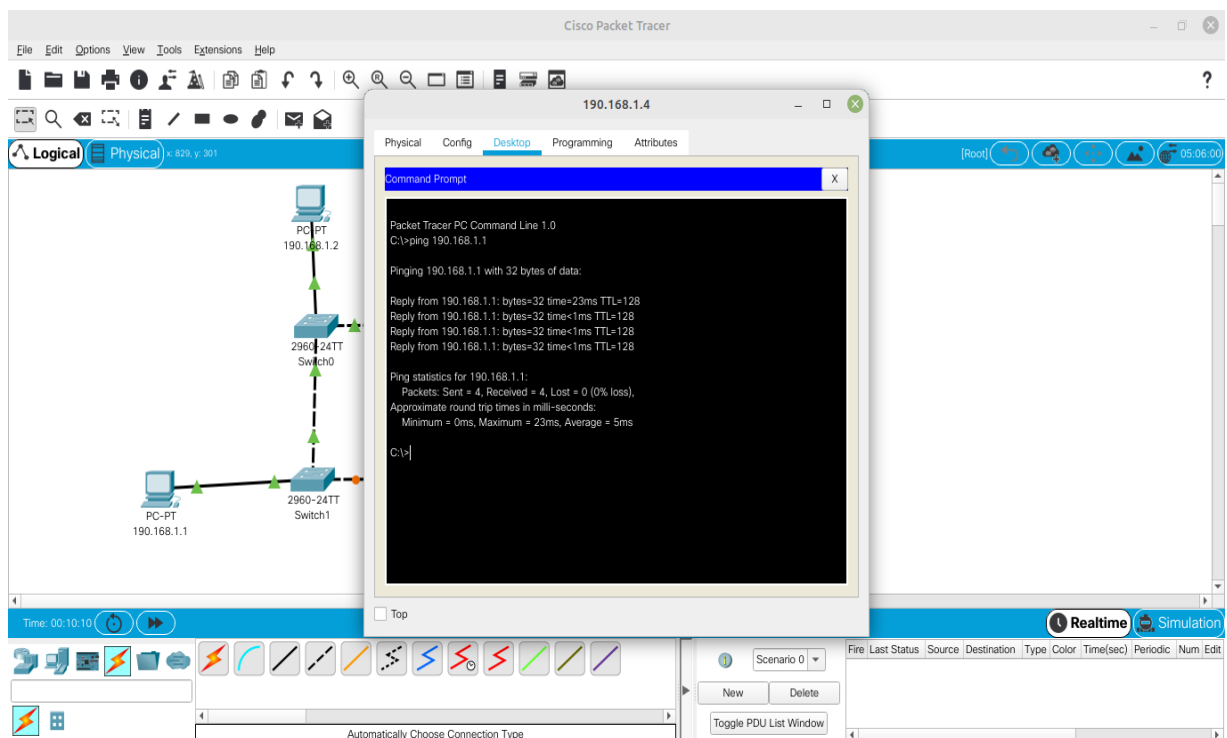
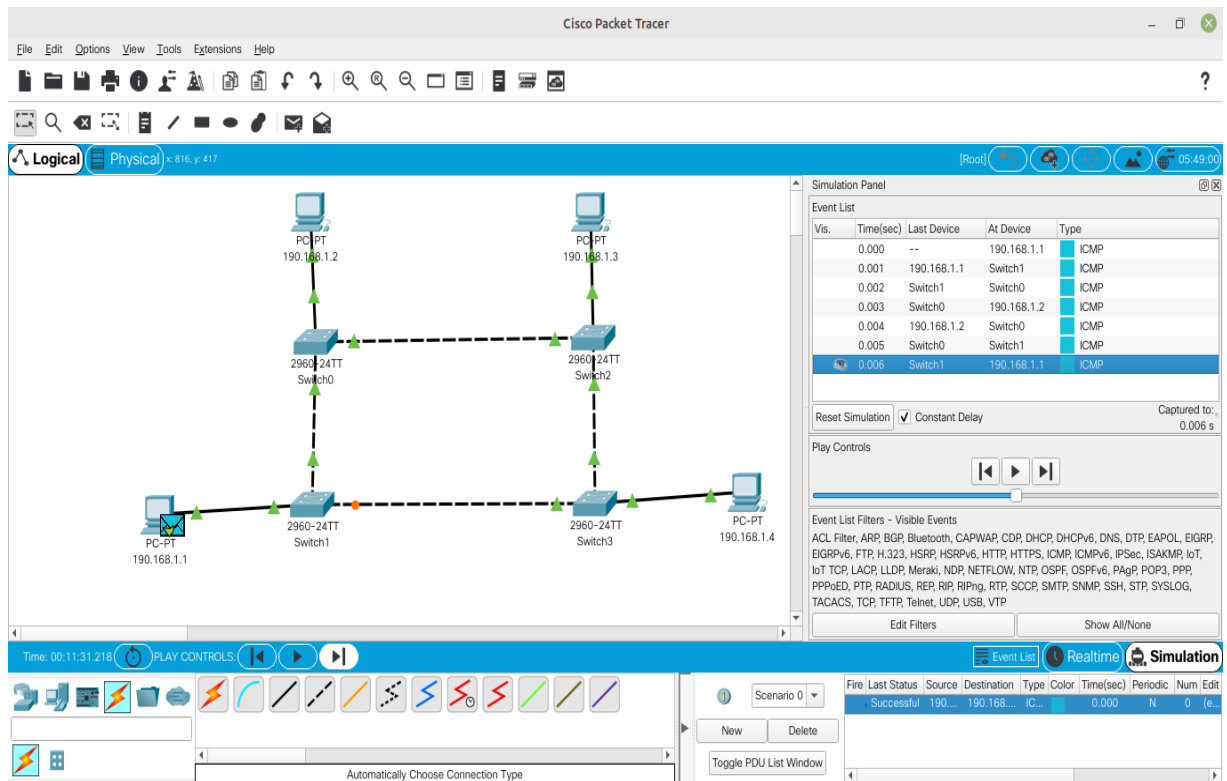
## 2. Implement different topologies in packet tracer.

### a. Bus



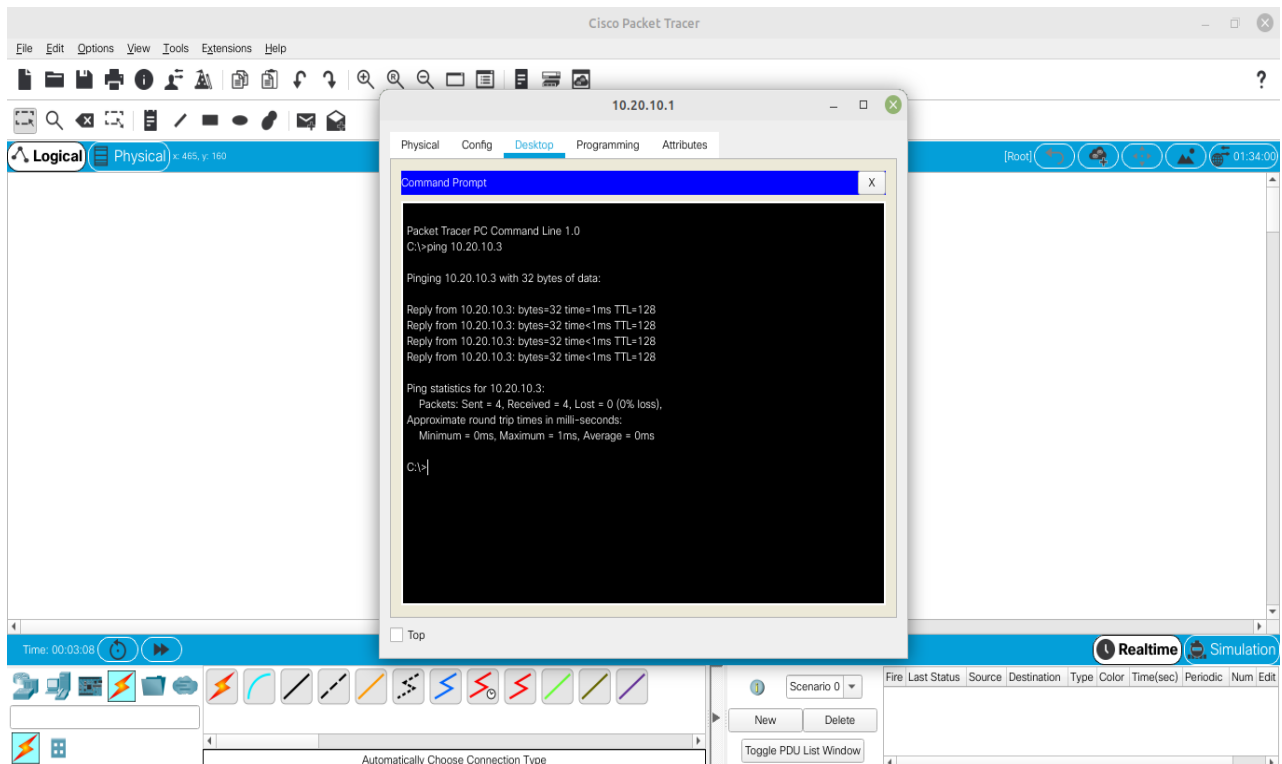
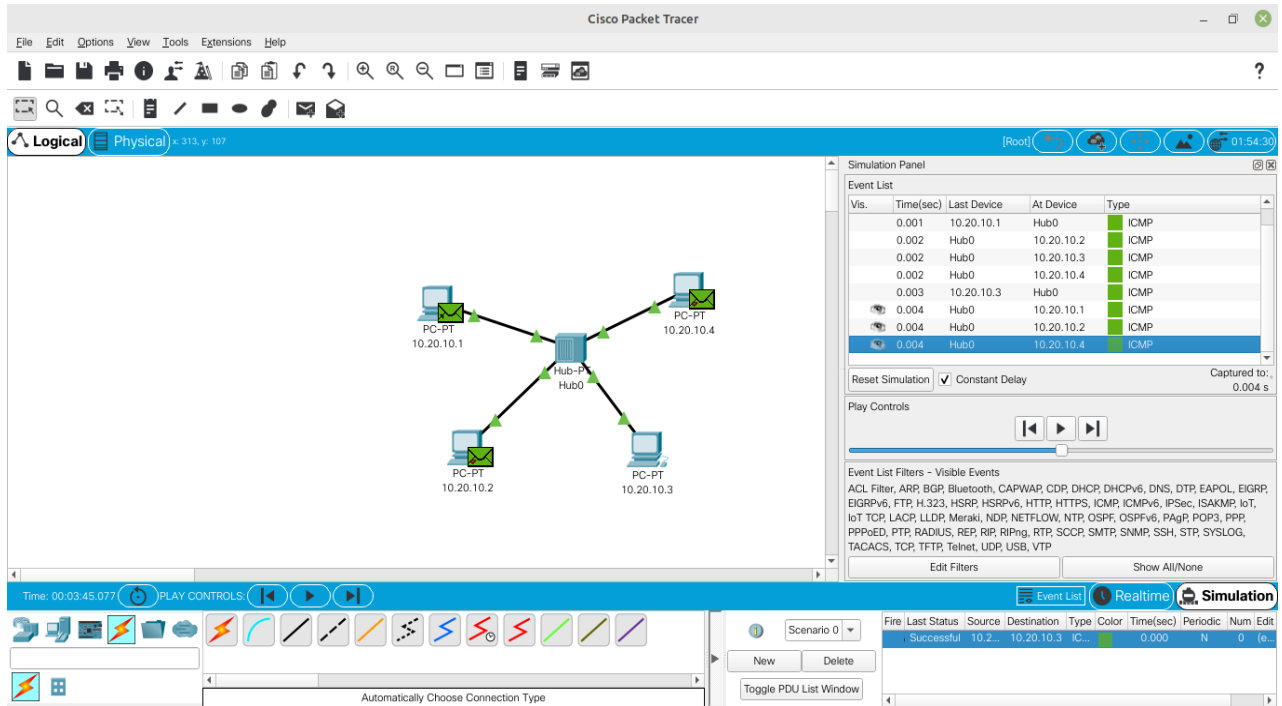
Date: 02/08/2003

### b. Ring



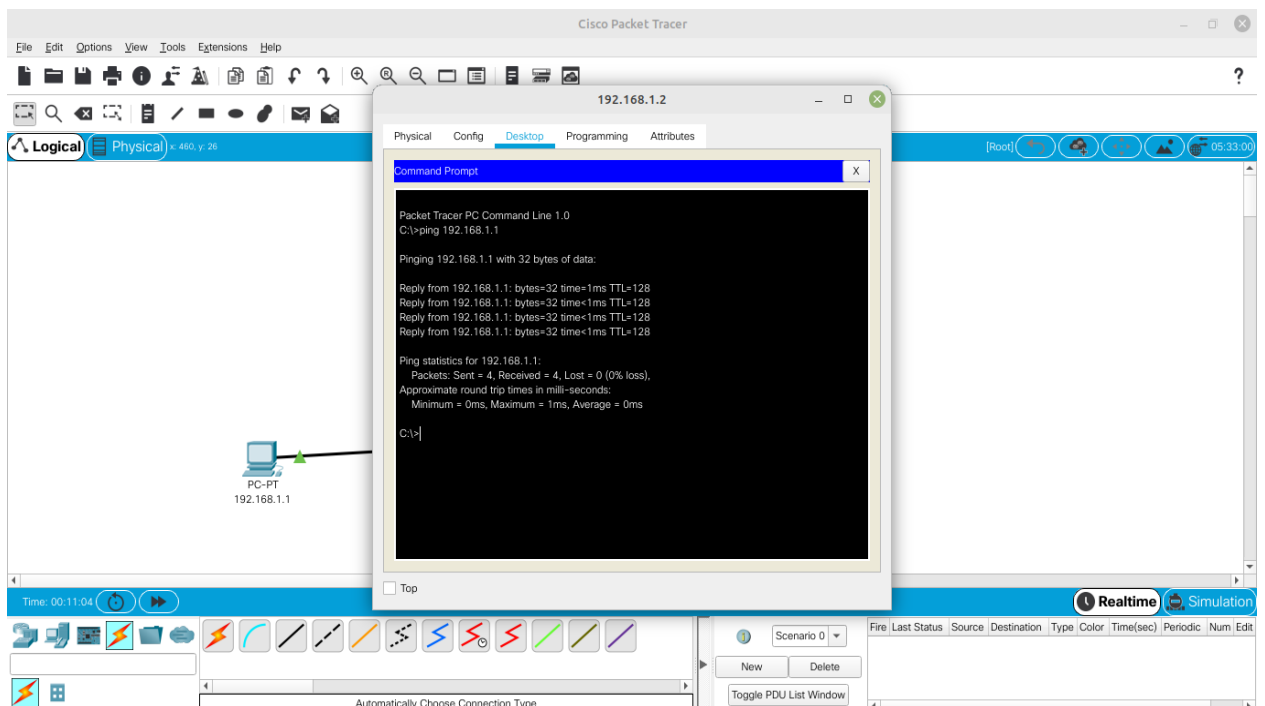
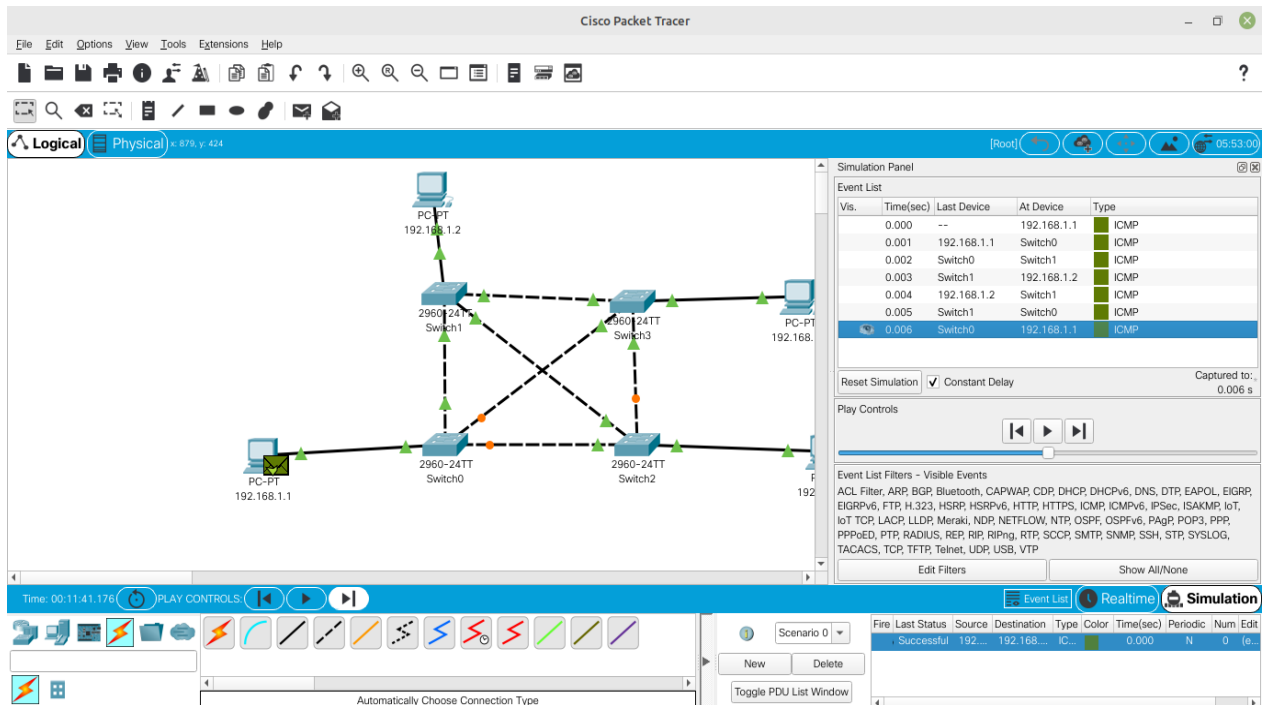
Date: 02/08/2003

### c. Star



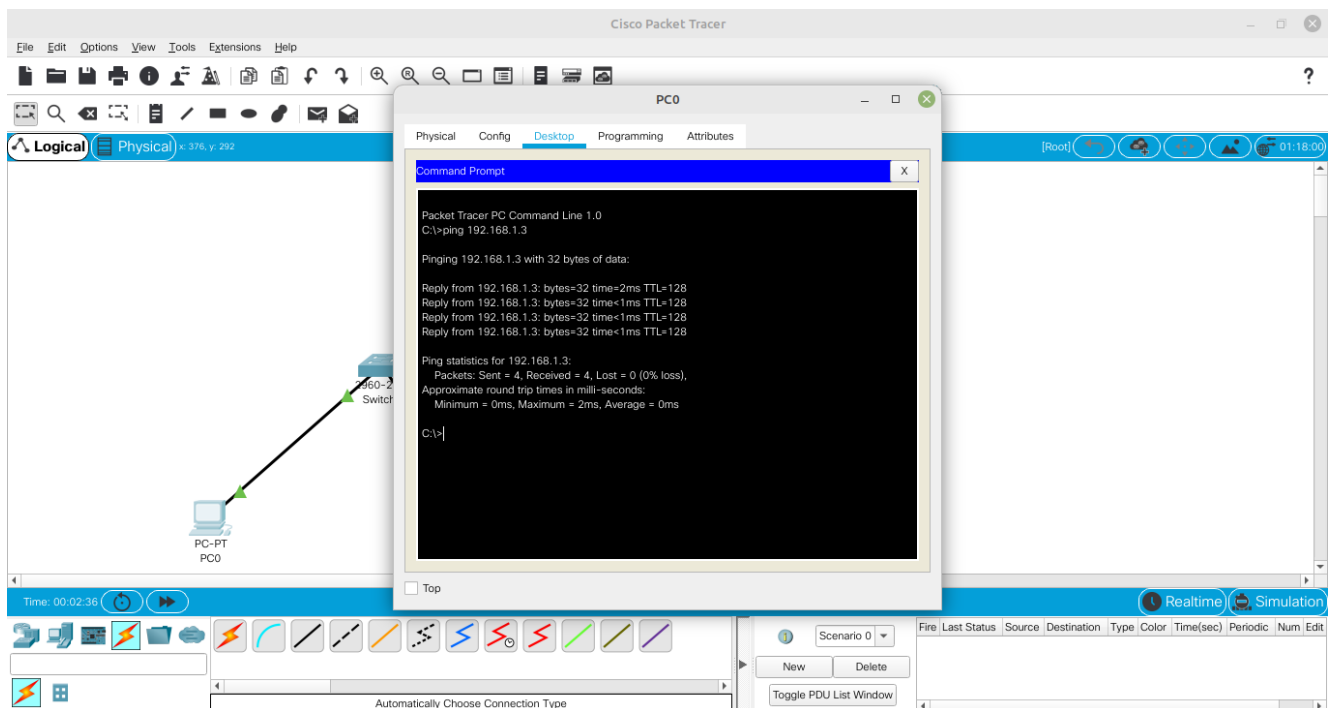
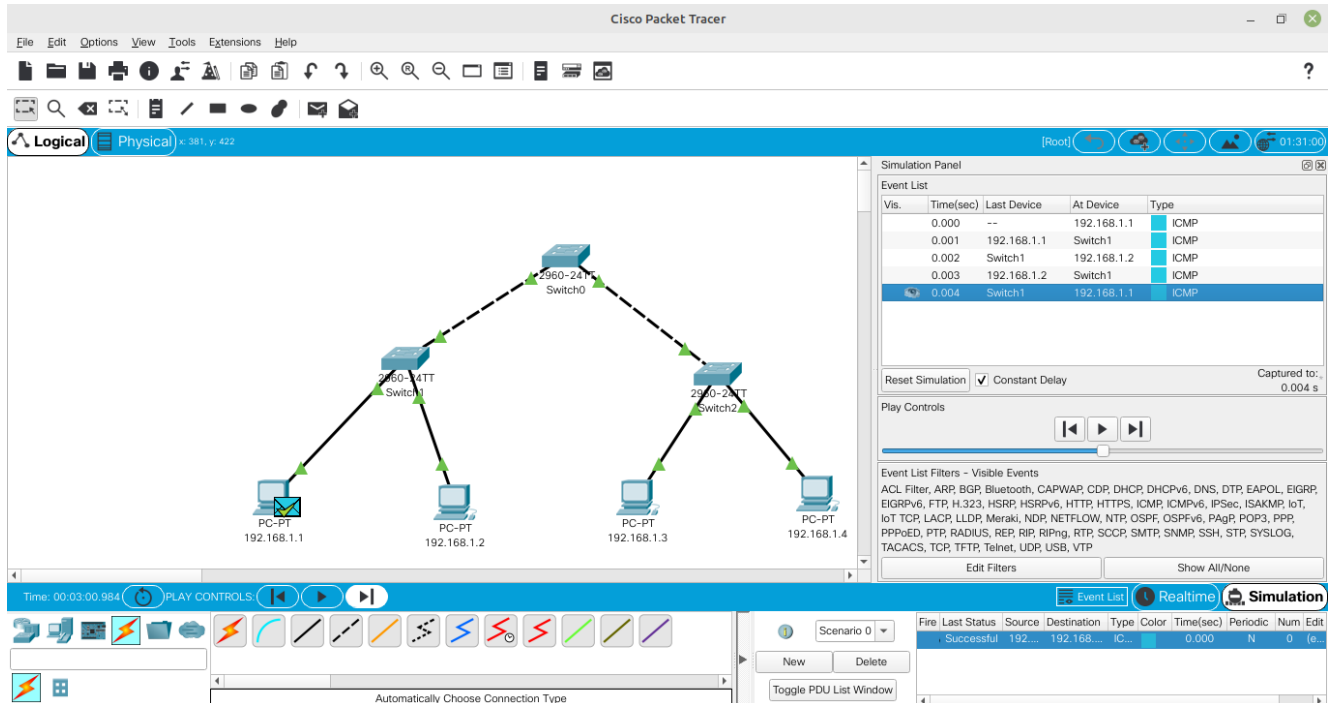
Date: 02/08/2003

### d. Mesh



Date: 02/08/2003

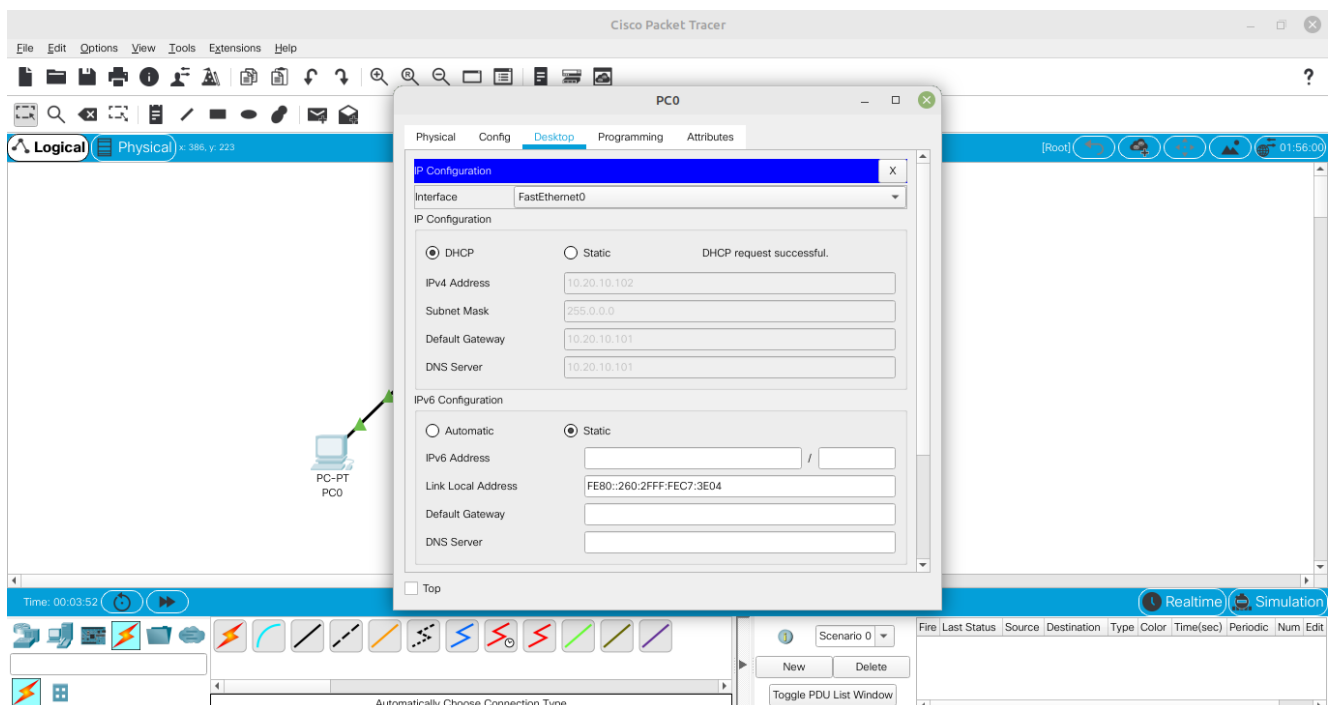
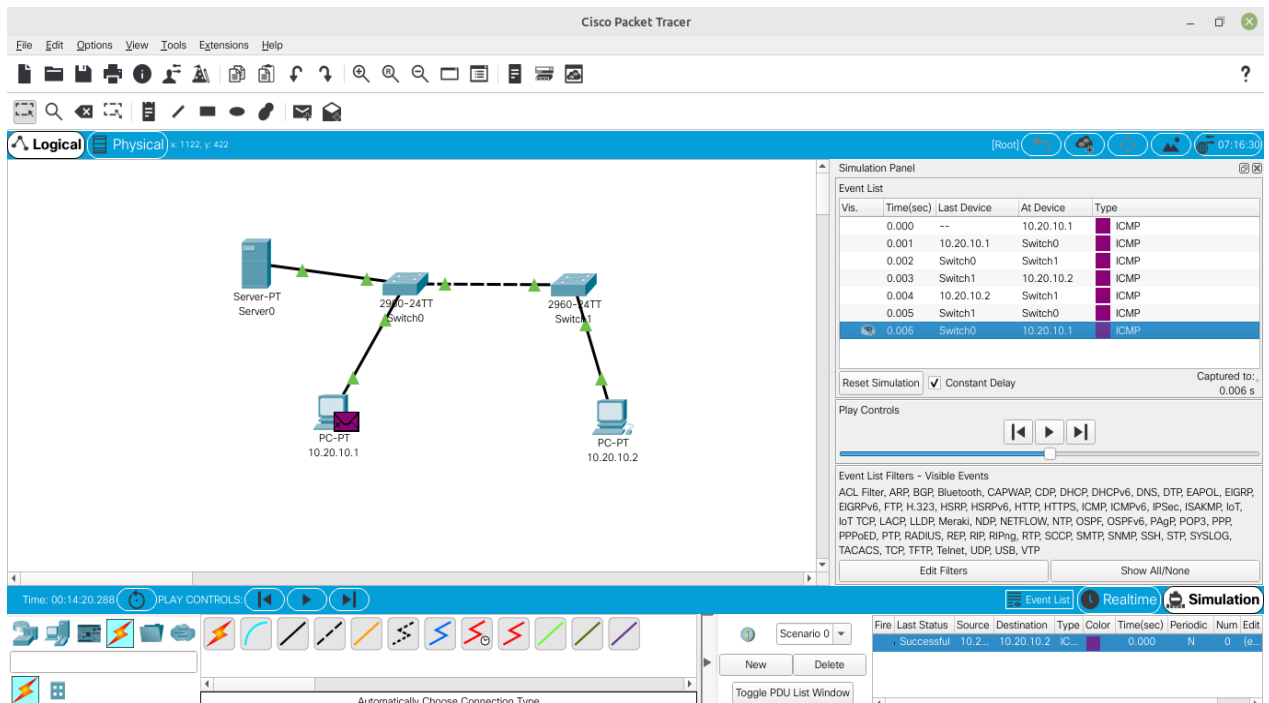
### e. Tree



Date: 02/08/2003

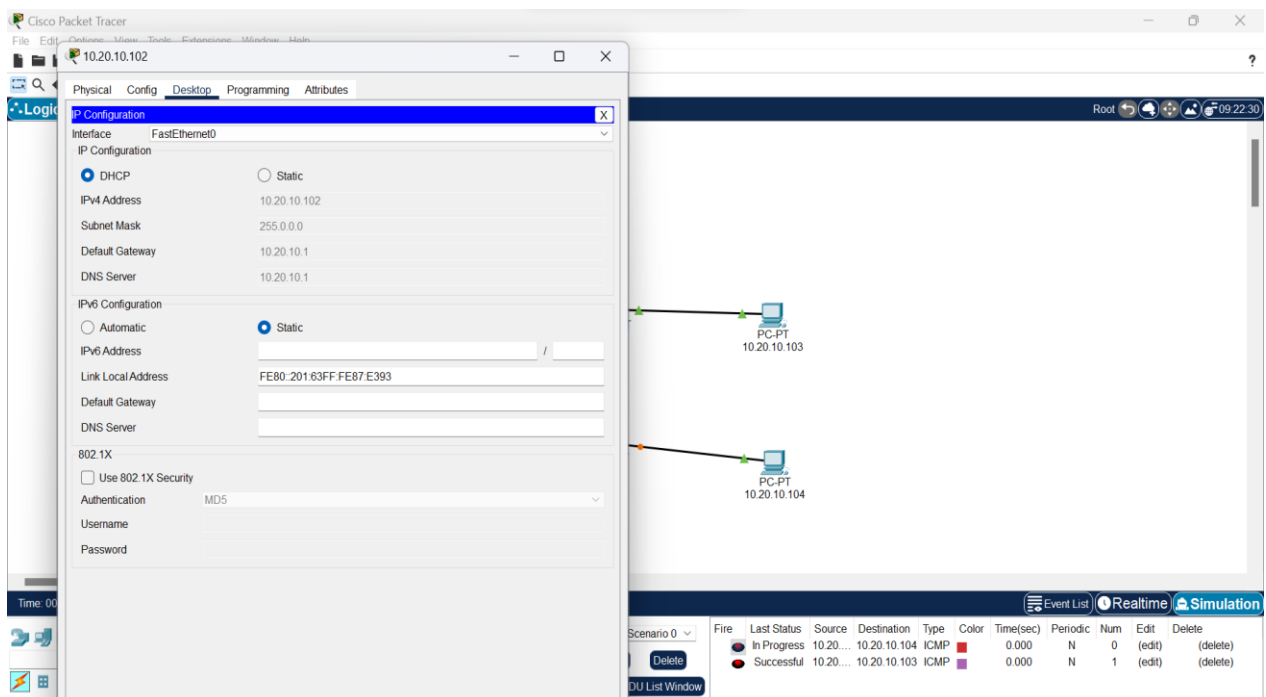
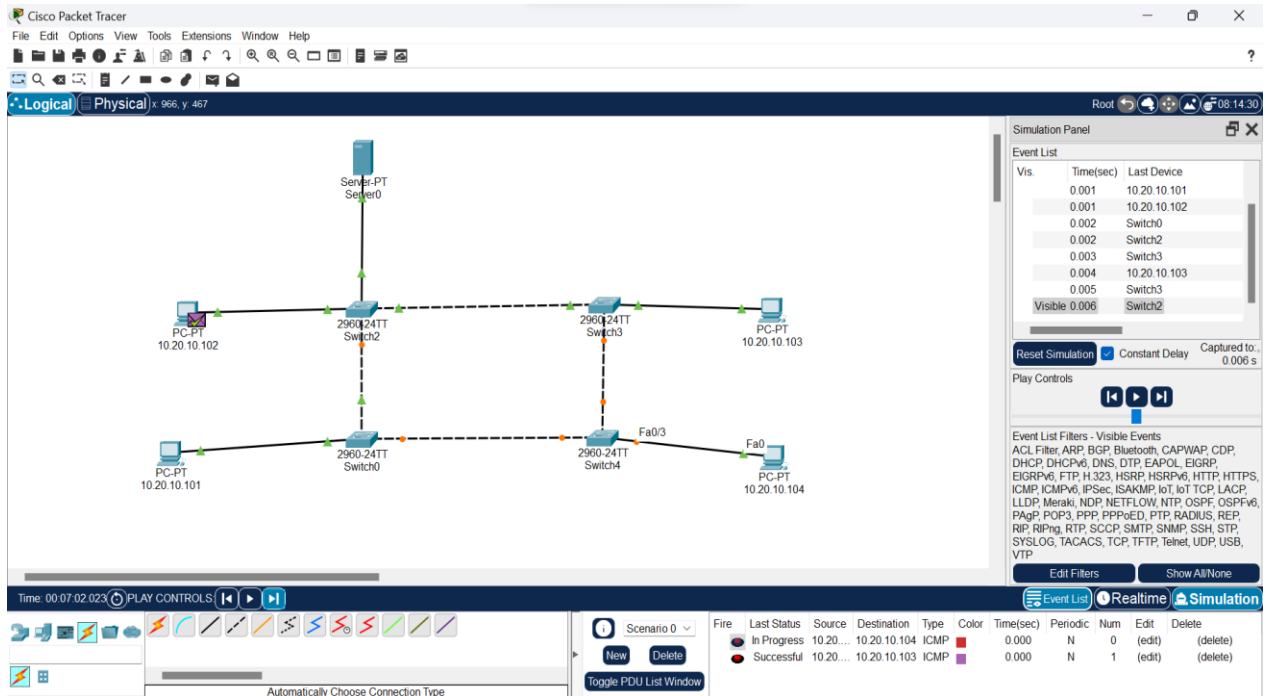
### 3. Implement different topologies (DHCP IP Address)

#### a. Bus



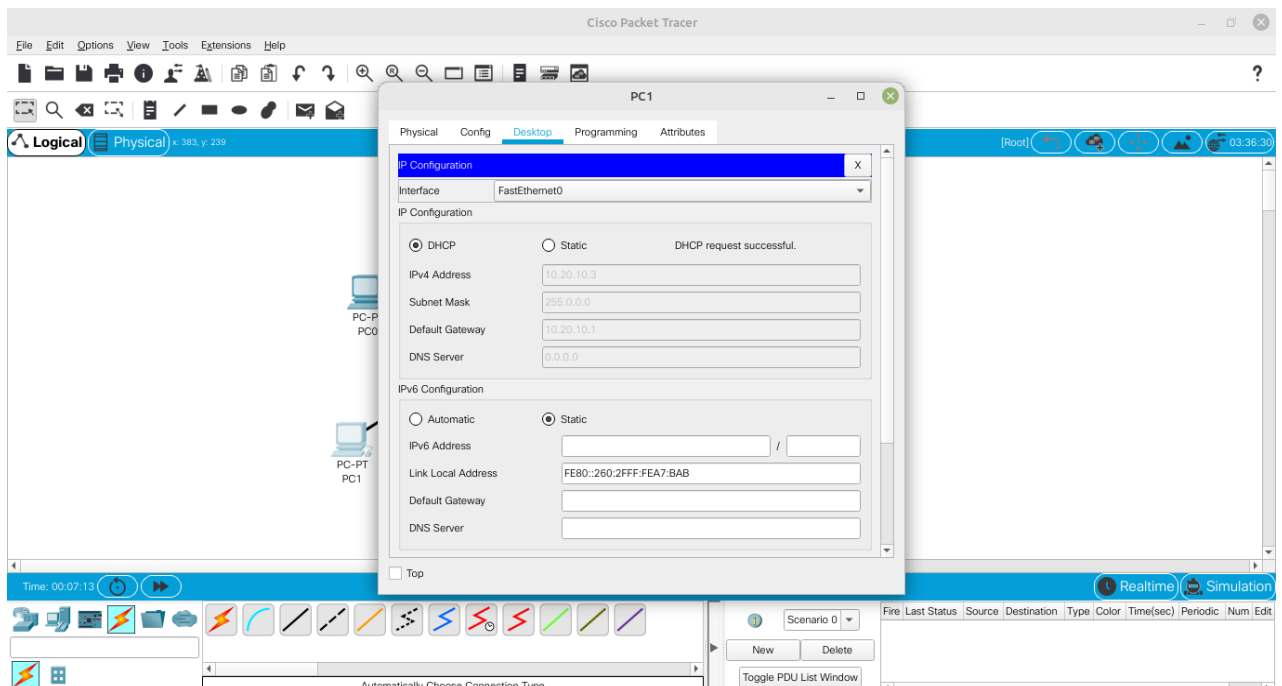
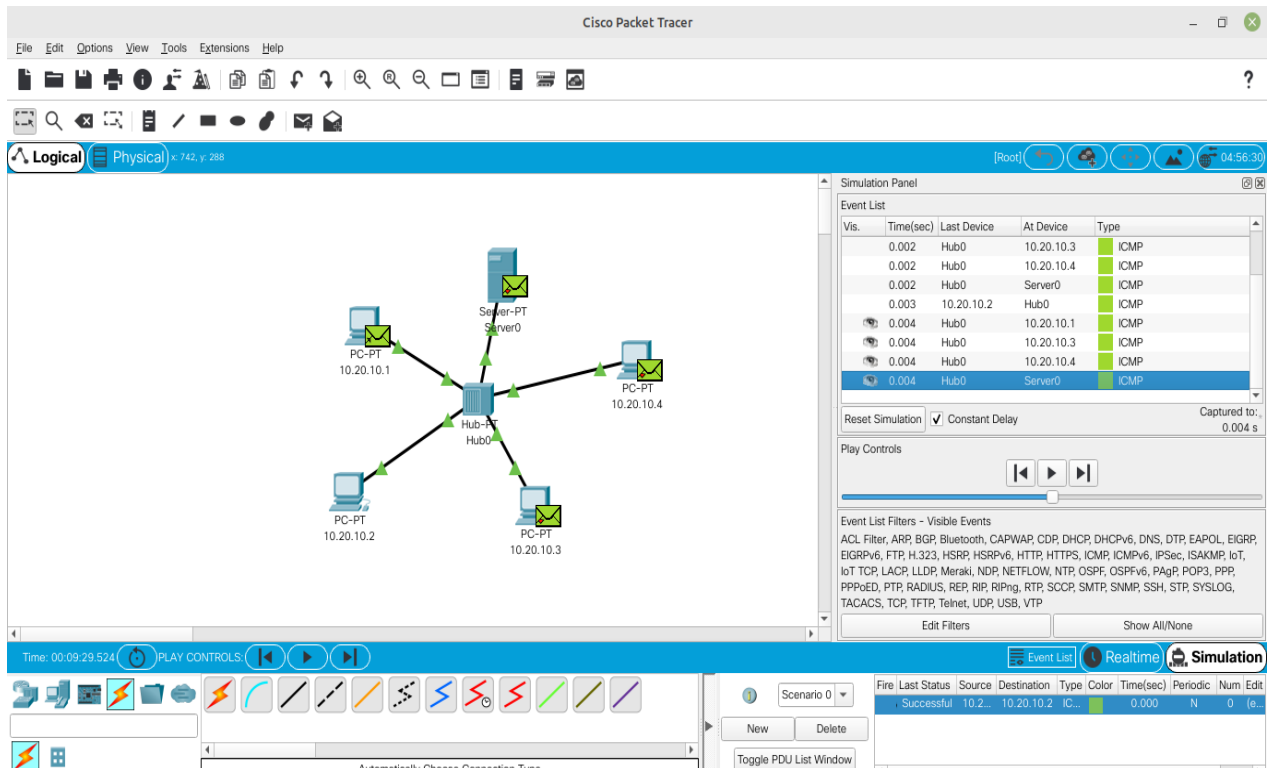
Date: 02/08/2003

### b. Ring



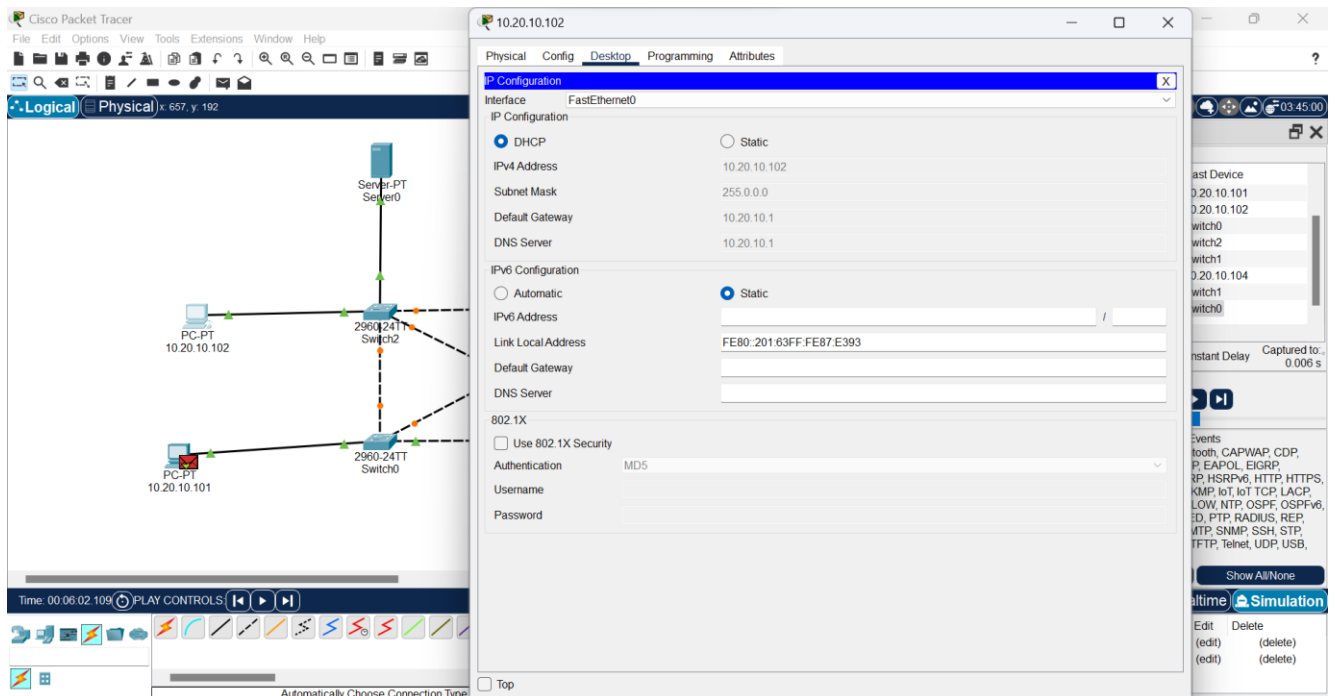
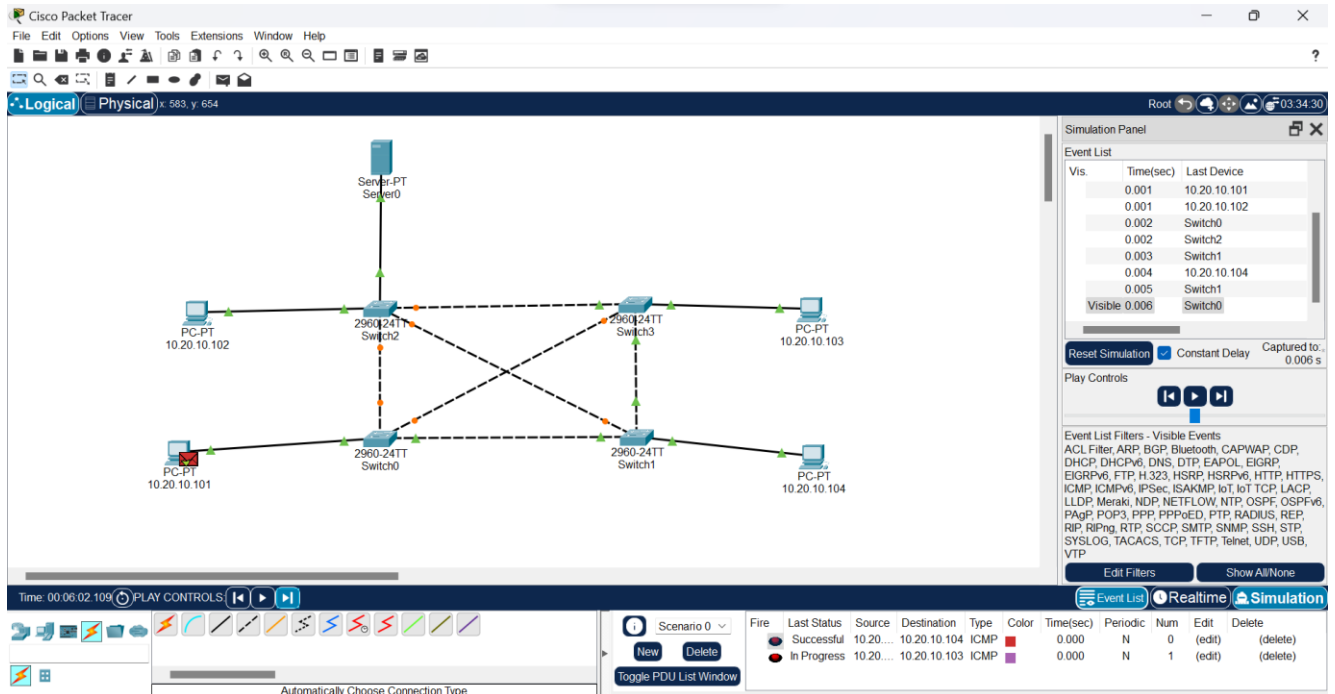


**c. Star**

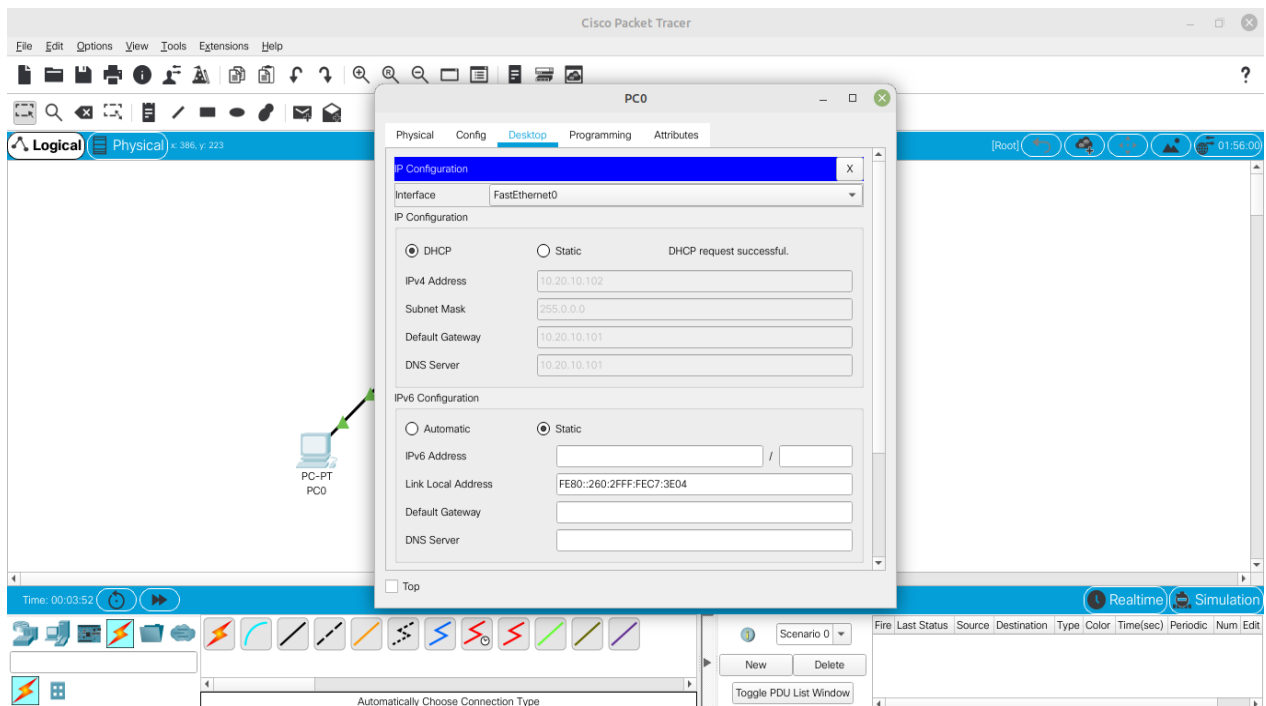
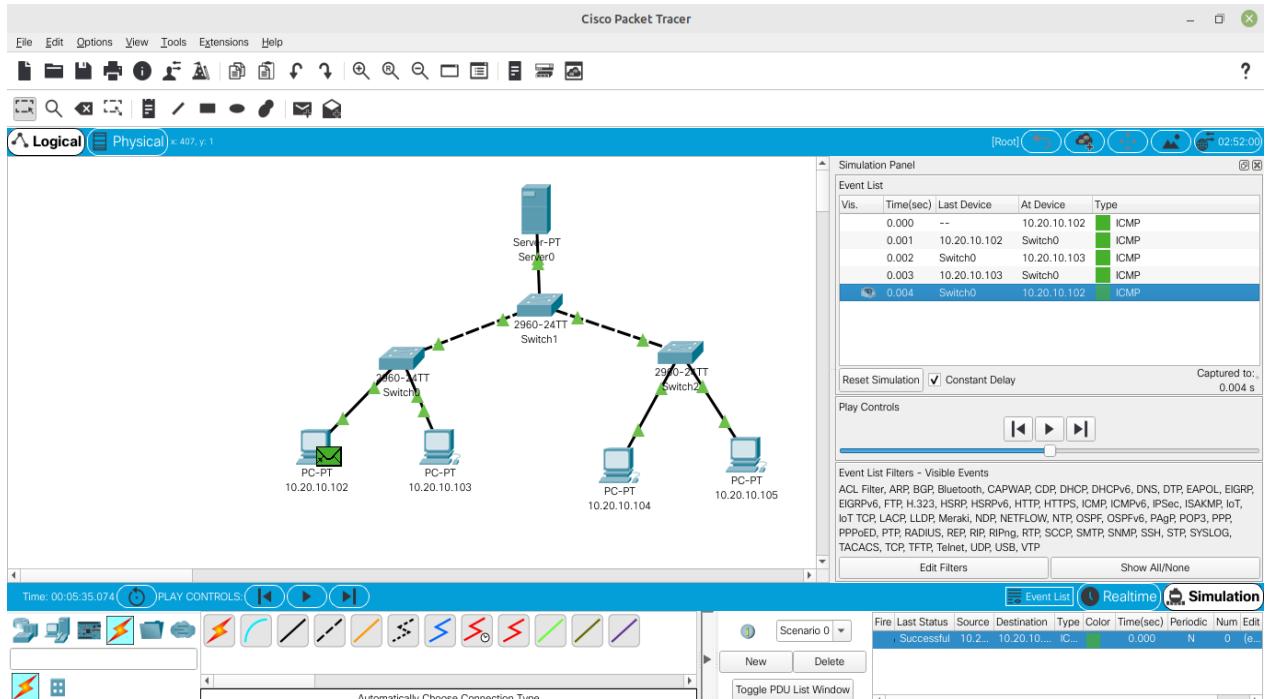


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### d. Mesh



**e. Tree**





**Date:02/08/2003**

**Instructions:**

1. Topology-wise Screenshot.
2. Mention IP address of each pc as label.
3. Ping command or PDU screenshot between two pcs.