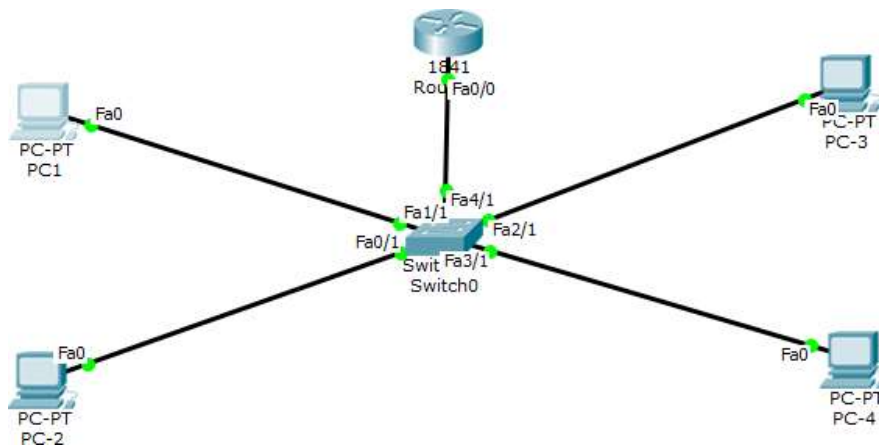


CN LAB-11 (18/08/2023)

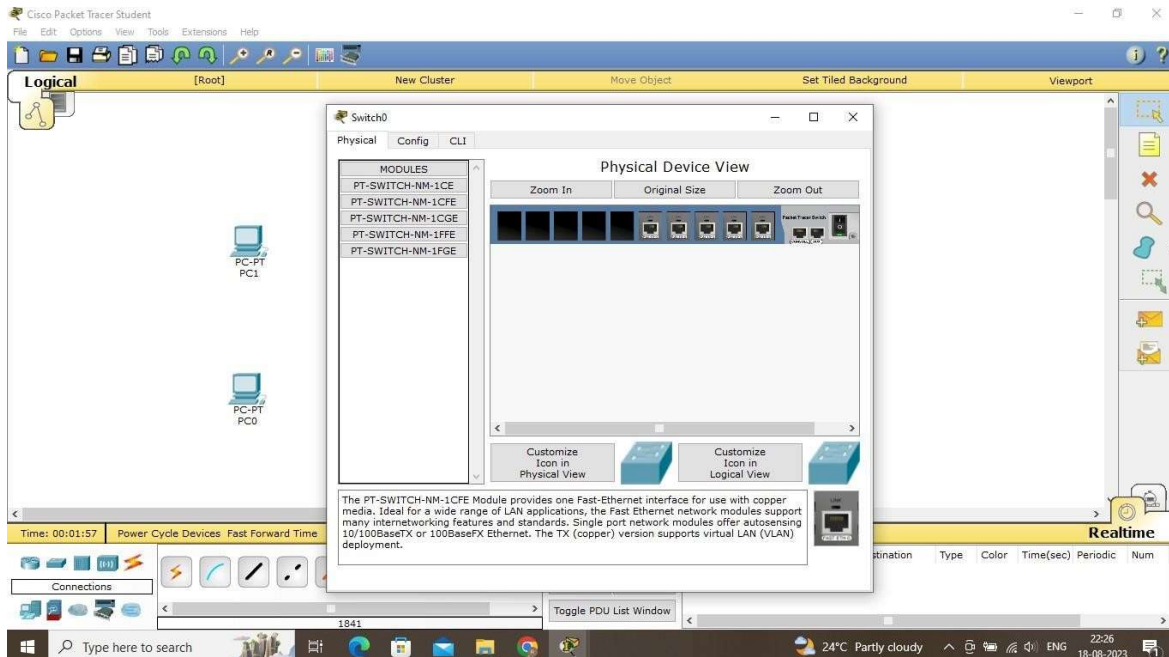
USN: 1BM21CS271

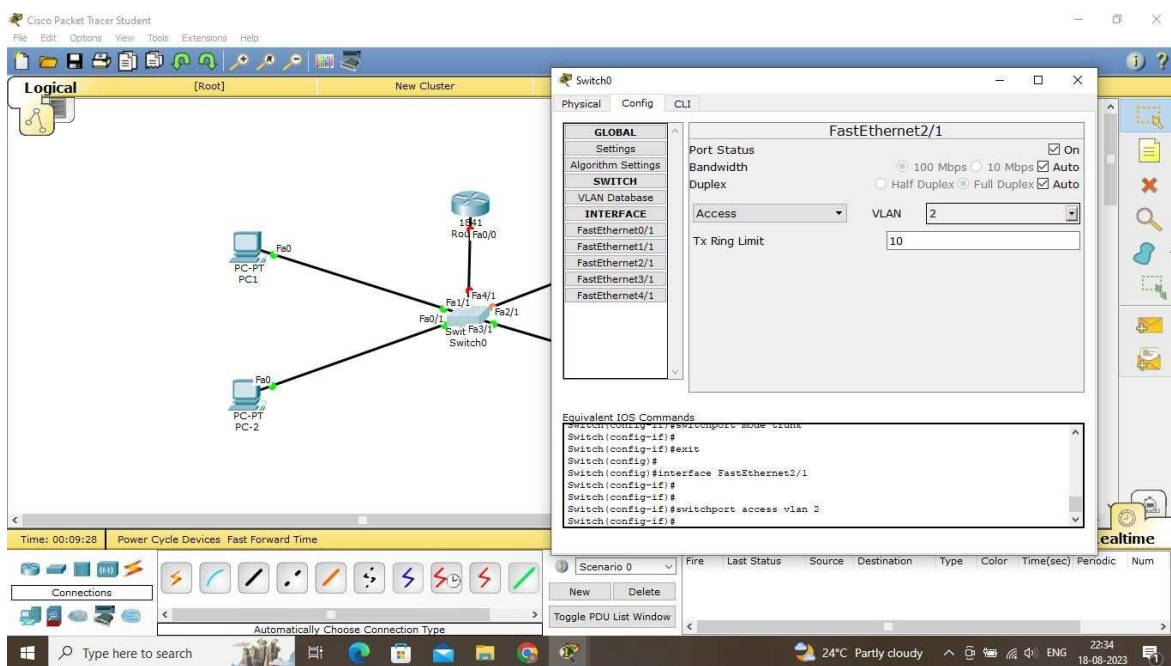
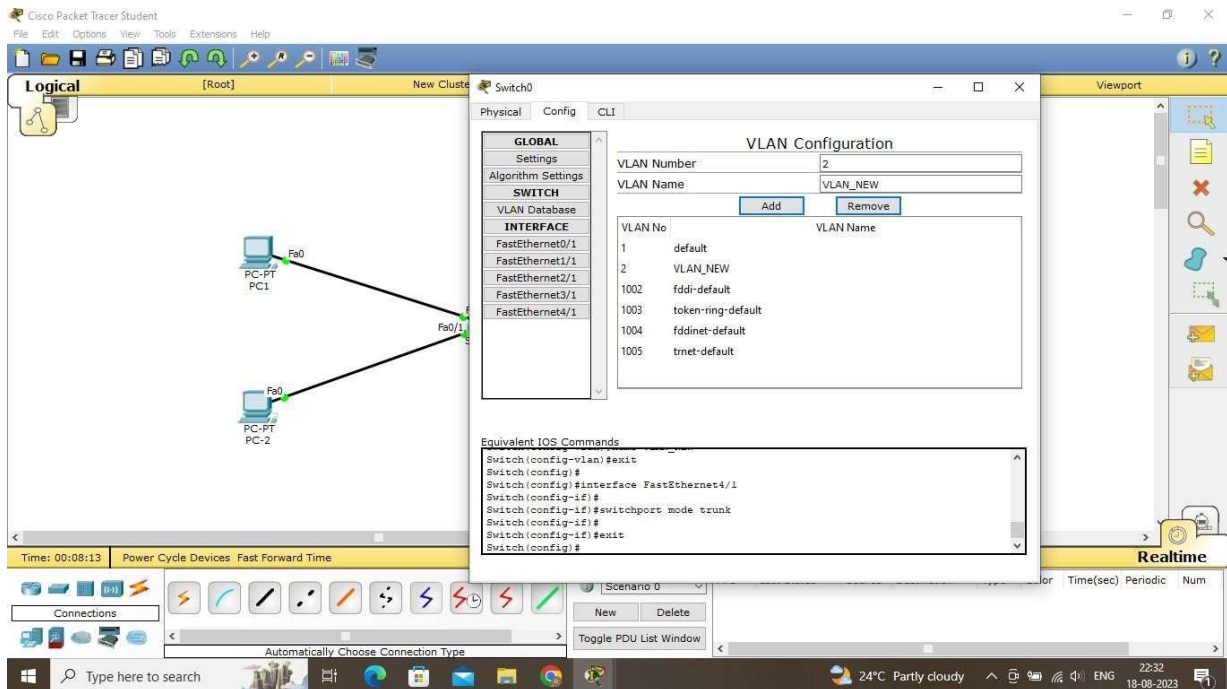
Depict VLAN in a topology.

TOPOLOGY:



CONFIG SWITCH & VLAN DATABASE:





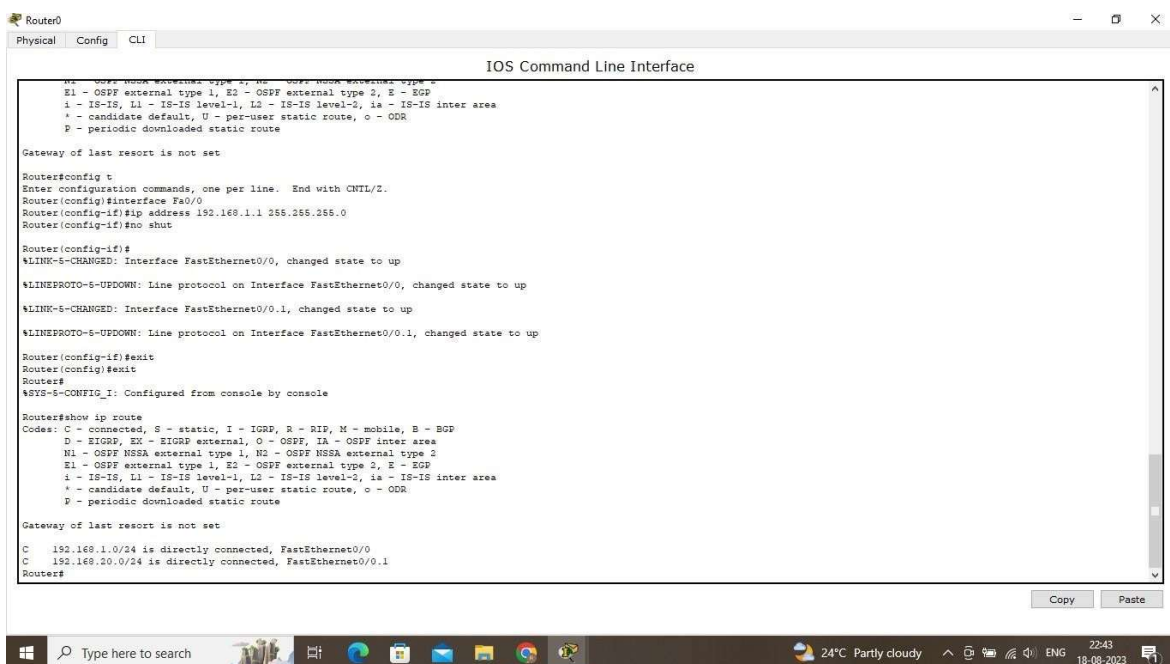
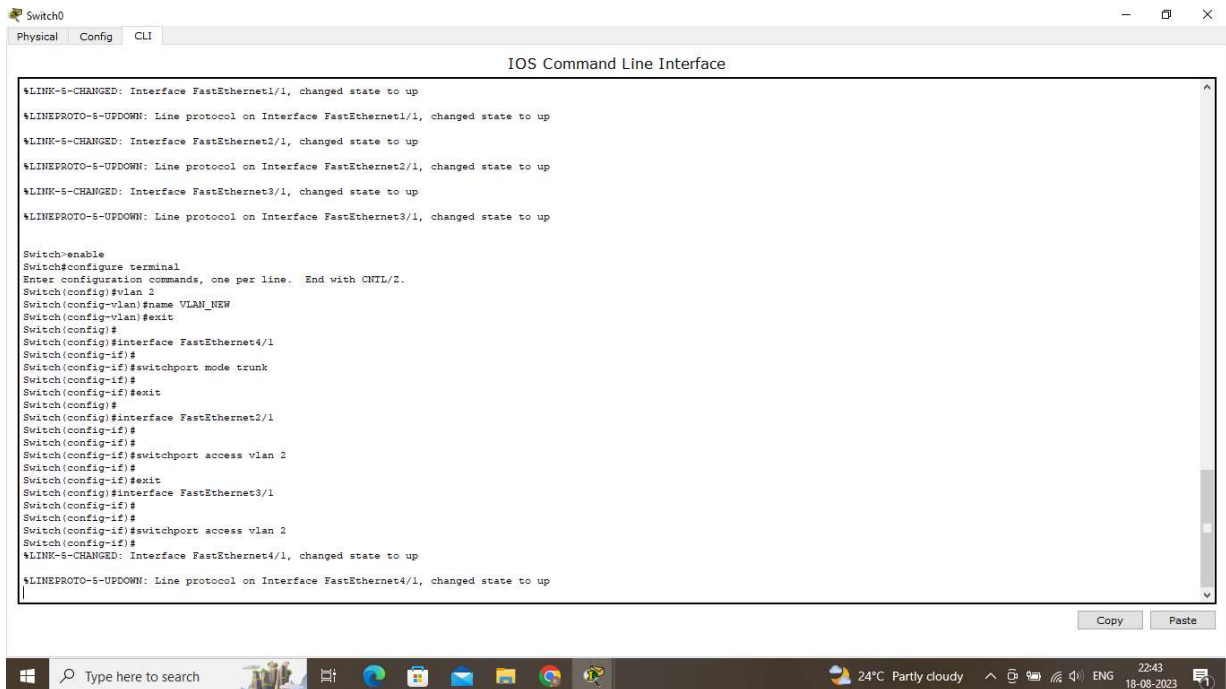
CONFIG ROUTER:

The screenshot shows the Cisco Packet Tracer Student interface. The main workspace displays a network diagram with a central router (Router0) connected to two PCs (PC-PT PC1 and PC-PT PC2) via a switch (Switch0). The router's configuration window is open, showing the 'VLAN Configuration' tab. The 'VLAN Number' is set to 2, and the 'VLAN Name' is 'VLAN_NEW'. The 'Equivalent IOS Commands' section shows the following commands:

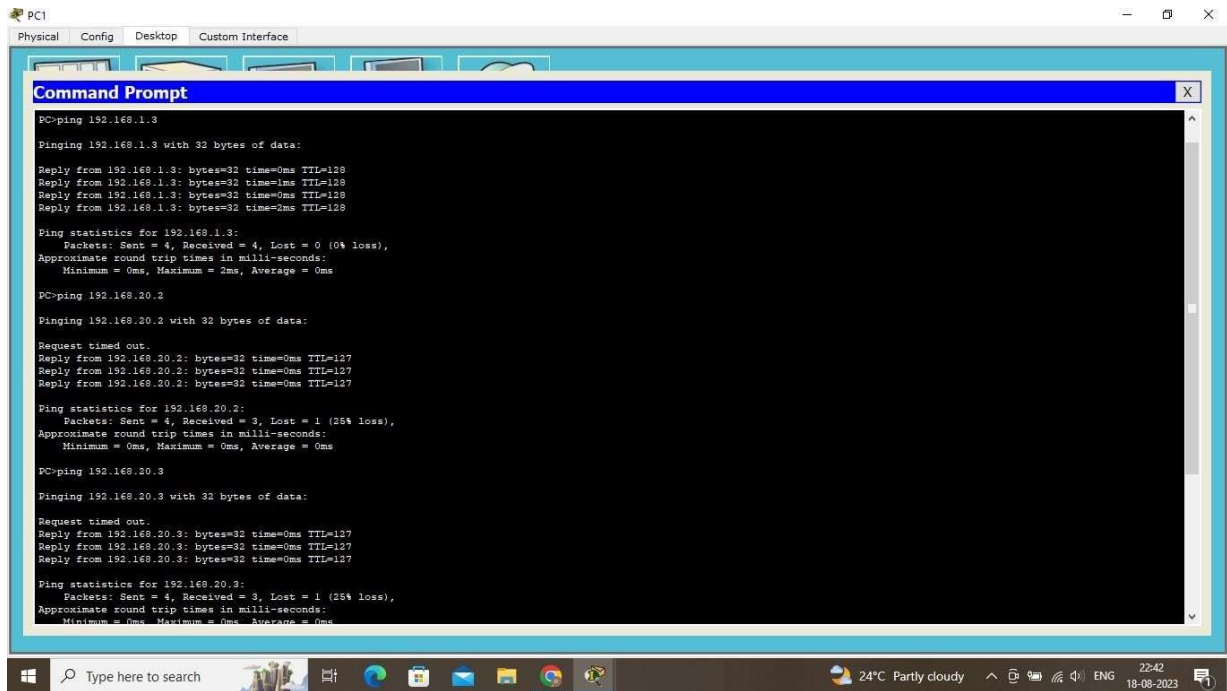
```
Router#vlan database
Router(vlan)#
$SYS-S-CONFIG_I: Configured from console by console
```

The screenshot shows the Cisco Packet Tracer Student interface. The main workspace displays the same network diagram as the previous screenshot. The router's configuration window is open, showing the 'FastEthernet0/0' tab. The 'Port Status' is set to 'On', 'Bandwidth' is '100 Mbps', 'Duplex' is 'Half Duplex', and 'MAC Address' is '0030.F2C5.0301'. The 'IP Configuration' section shows the 'IP Address' as '192.168.1.1' and the 'Subnet Mask' as '255.255.255.0'. The 'Tx Ring Limit' is set to '10'. The 'Equivalent IOS Commands' section shows the following commands:

```
Router(vlan)#exit
Router#configure terminal
Router(config)#interface FastEthernet0/0
Router(config-if)#
```



PING COMMANDS:



The screenshot shows a Windows PC1 desktop with a Command Prompt window open. The window title is "Command Prompt". The output shows the results of three ping commands:

```
PC>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=0ms TTL=128
Reply from 192.168.1.3: bytes=32 time=1ms TTL=128
Reply from 192.168.1.3: bytes=32 time=0ms TTL=128
Reply from 192.168.1.3: bytes=32 time=2ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms

PC>ping 192.168.20.2

Pinging 192.168.20.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.2: bytes=32 time=0ms TTL=127
Reply from 192.168.20.2: bytes=32 time=0ms TTL=127
Reply from 192.168.20.2: bytes=32 time=0ms TTL=127

Ping statistics for 192.168.20.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

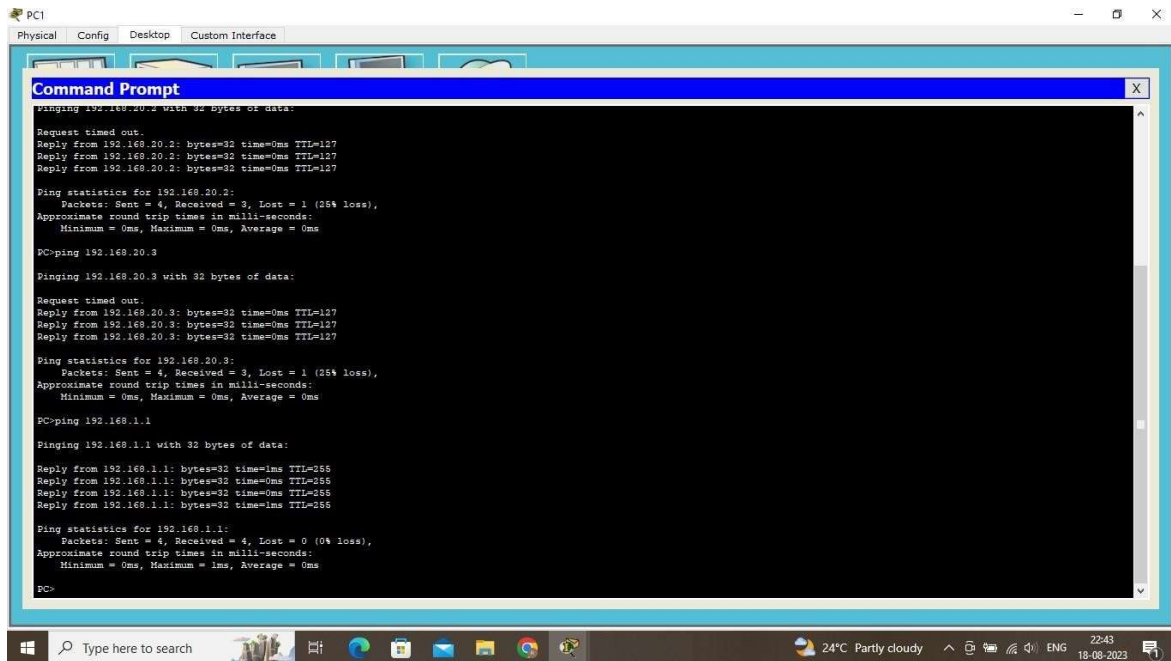
PC>ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.3: bytes=32 time=0ms TTL=127
Reply from 192.168.20.3: bytes=32 time=0ms TTL=127
Reply from 192.168.20.3: bytes=32 time=0ms TTL=127

Ping statistics for 192.168.20.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

The taskbar at the bottom shows the Windows search bar, taskbar icons, and system tray with a temperature of 24°C, weather "Partly cloudy", and date/time "22:42 18-08-2023".



The screenshot shows a Windows PC1 desktop with a Command Prompt window open. The window title is "Command Prompt". The output shows the results of three ping commands:

```
PC>ping 192.168.20.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.2: bytes=32 time=0ms TTL=127
Reply from 192.168.20.2: bytes=32 time=0ms TTL=127
Reply from 192.168.20.2: bytes=32 time=0ms TTL=127

Ping statistics for 192.168.20.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Request timed out.
Reply from 192.168.20.3: bytes=32 time=0ms TTL=127
Reply from 192.168.20.3: bytes=32 time=0ms TTL=127
Reply from 192.168.20.3: bytes=32 time=0ms TTL=127

Ping statistics for 192.168.20.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=0ms TTL=255
Reply from 192.168.1.1: bytes=32 time=0ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

PC>
```

The taskbar at the bottom shows the Windows search bar, taskbar icons, and system tray with a temperature of 24°C, weather "Partly cloudy", and date/time "22:43 18-08-2023".