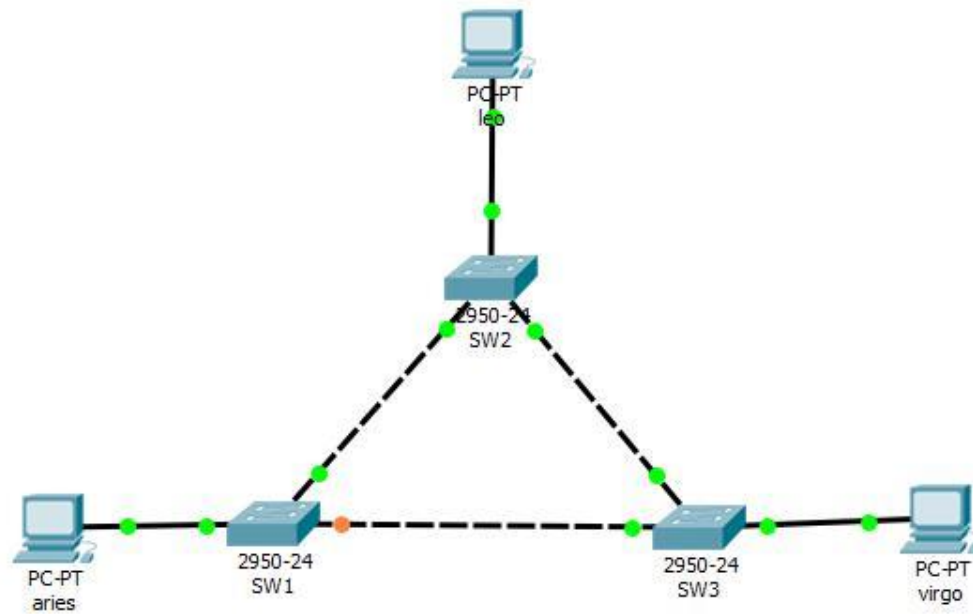


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Class : X

Modul VI

Kegiatan 1

1. Using PACKET TRACER to create a topology by using a switch and a PC. Like the picture below:



Configure IP address on PC leo:

The screenshot shows the 'IP Configuration' window for PC 'leo'. The window has tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Config' tab is active, and the 'IP Configuration' section is expanded. Under 'IP Configuration', the 'Static' radio button is selected. The fields are filled with: IP Address: 172.21.1.1, Subnet Mask: 255.255.255.0, Default Gateway: 0.0.0.0, and DNS Server: 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is also selected. The fields are: IPv6 Address: (empty), Link Local Address: FE80::201:63FF:FEB4:E589, IPv6 Gateway: (empty), and IPv6 DNS Server: (empty). A 'Top' button is at the bottom left.

IP Configuration	
<input type="radio"/> DHCP <input checked="" type="radio"/> Static	
IP Address	172.21.1.1
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

IPv6 Configuration	
<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static	
IPv6 Address	/
Link Local Address	FE80::201:63FF:FEB4:E589
IPv6 Gateway	
IPv6 DNS Server	

Configuring IP addresses on the PC Aries:

The screenshot shows the 'IP Configuration' window for PC 'aries'. The window has tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Config' tab is active, and the 'IP Configuration' section is expanded. Under 'IP Configuration', the 'Static' radio button is selected. The fields are filled with: IP Address: 172.21.1.2, Subnet Mask: 255.255.255.0, Default Gateway: 0.0.0.0, and DNS Server: 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is also selected. The fields are: IPv6 Address: (empty), Link Local Address: FE80::2D0:58FF:FE0D:C8DA, IPv6 Gateway: (empty), and IPv6 DNS Server: (empty). A 'Top' button is at the bottom left.

IP Configuration	
<input type="radio"/> DHCP <input checked="" type="radio"/> Static	
IP Address	172.21.1.2
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
DNS Server	0.0.0.0

IPv6 Configuration	
<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static	
IPv6 Address	/
Link Local Address	FE80::2D0:58FF:FE0D:C8DA
IPv6 Gateway	
IPv6 DNS Server	

Configuring IP addresses on a Virgo PC:

The screenshot shows the 'virgo' application window with the 'Config' tab selected. The 'IP Configuration' sub-tab is active, displaying settings for both IPv4 and IPv6. The IPv4 section has 'Static' selected, with fields for IP Address (172.21.1.3), Subnet Mask (255.255.255.0), Default Gateway (0.0.0.0), and DNS Server (0.0.0.0). The IPv6 section has 'Static' selected, with fields for IPv6 Address (empty), Link Local Address (FE80::2E0:A3FF:FEA4:E871), IPv6 Gateway (empty), and IPv6 DNS Server (empty). A 'Top' button is at the bottom left.

virgo

Physical Config Desktop Programming Attributes

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 172.21.1.3

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:A3FF:FEA4:E871

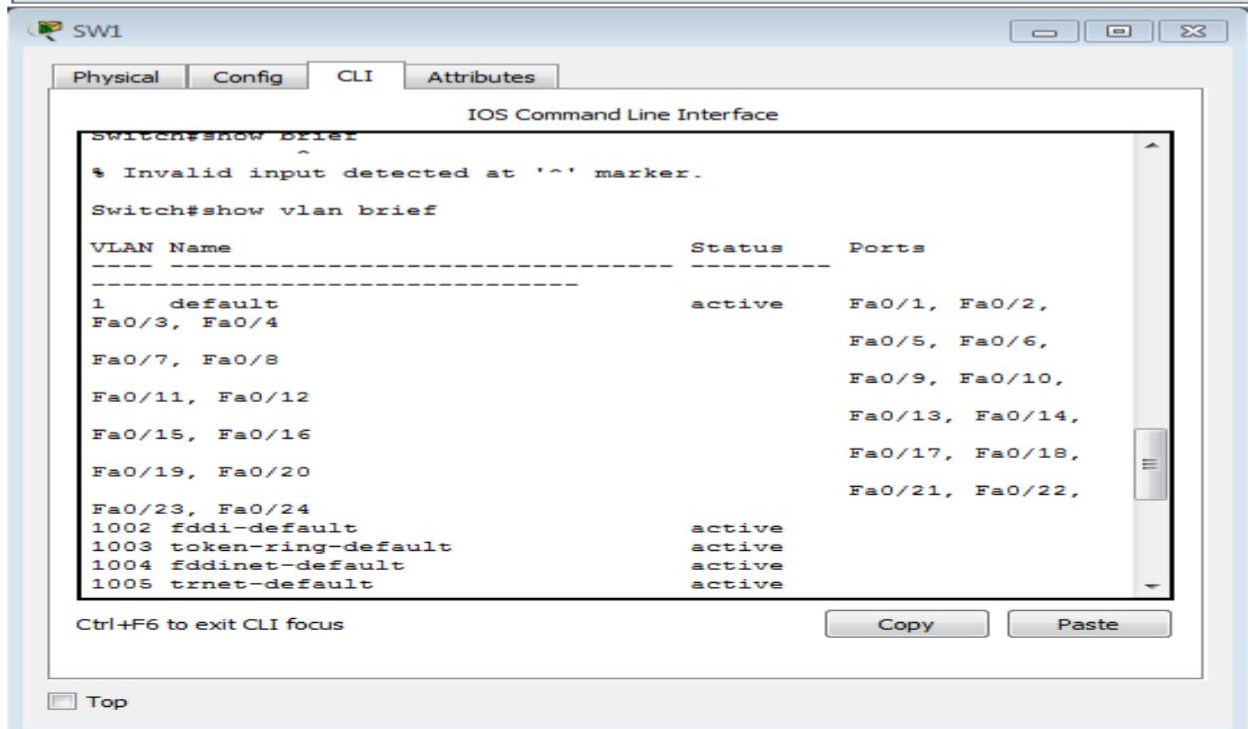
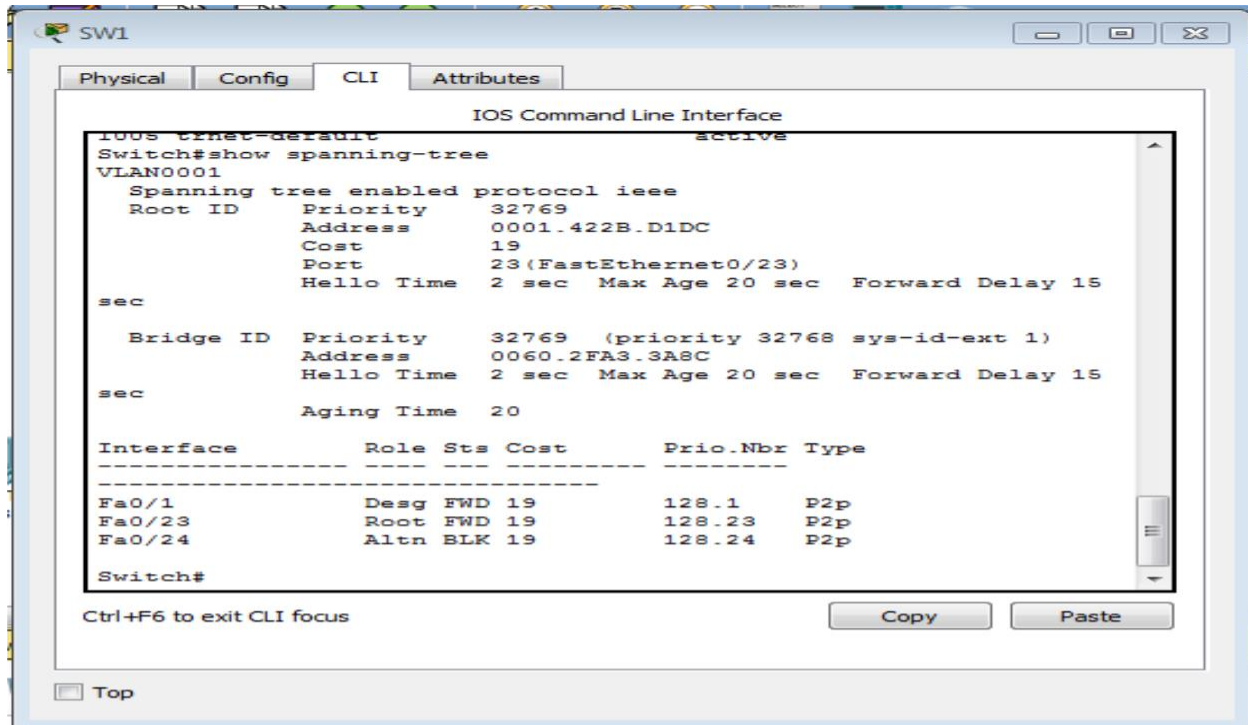
IPv6 Gateway

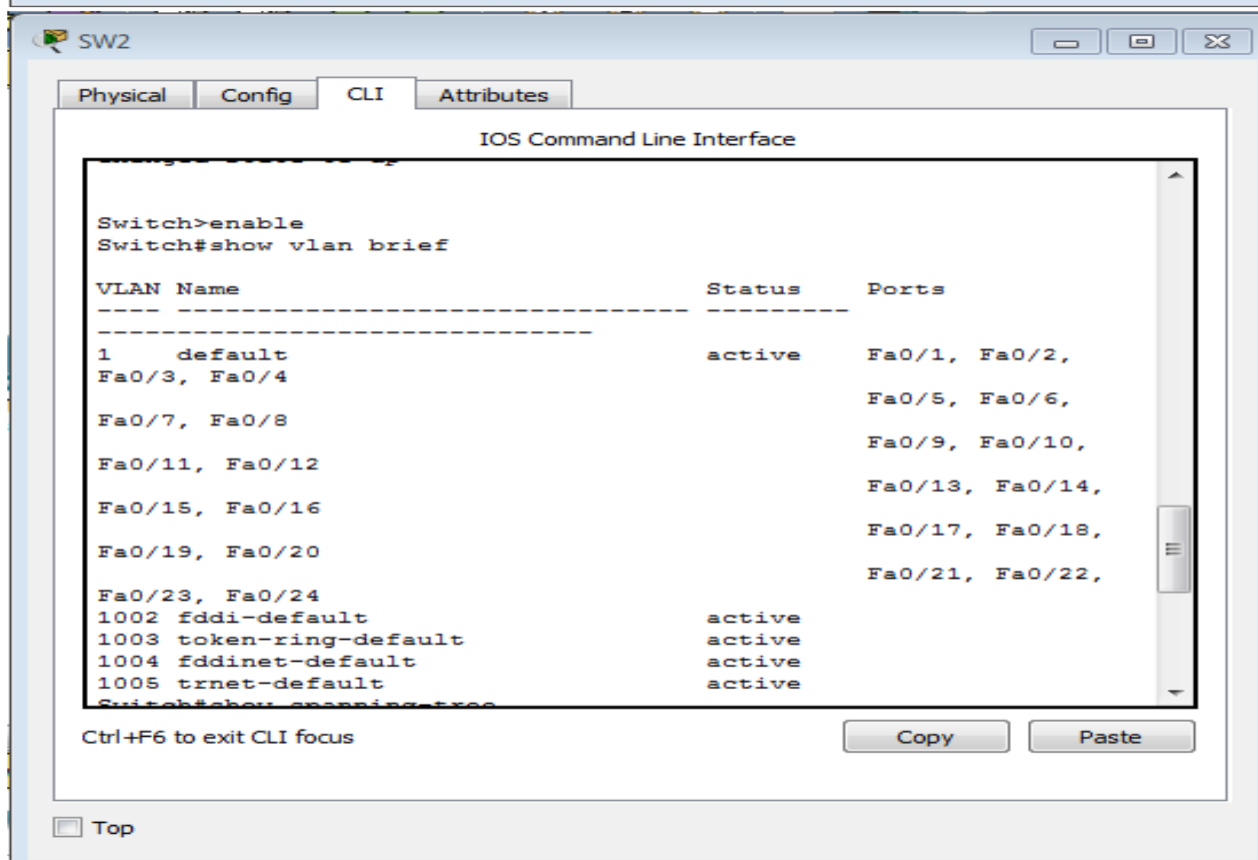
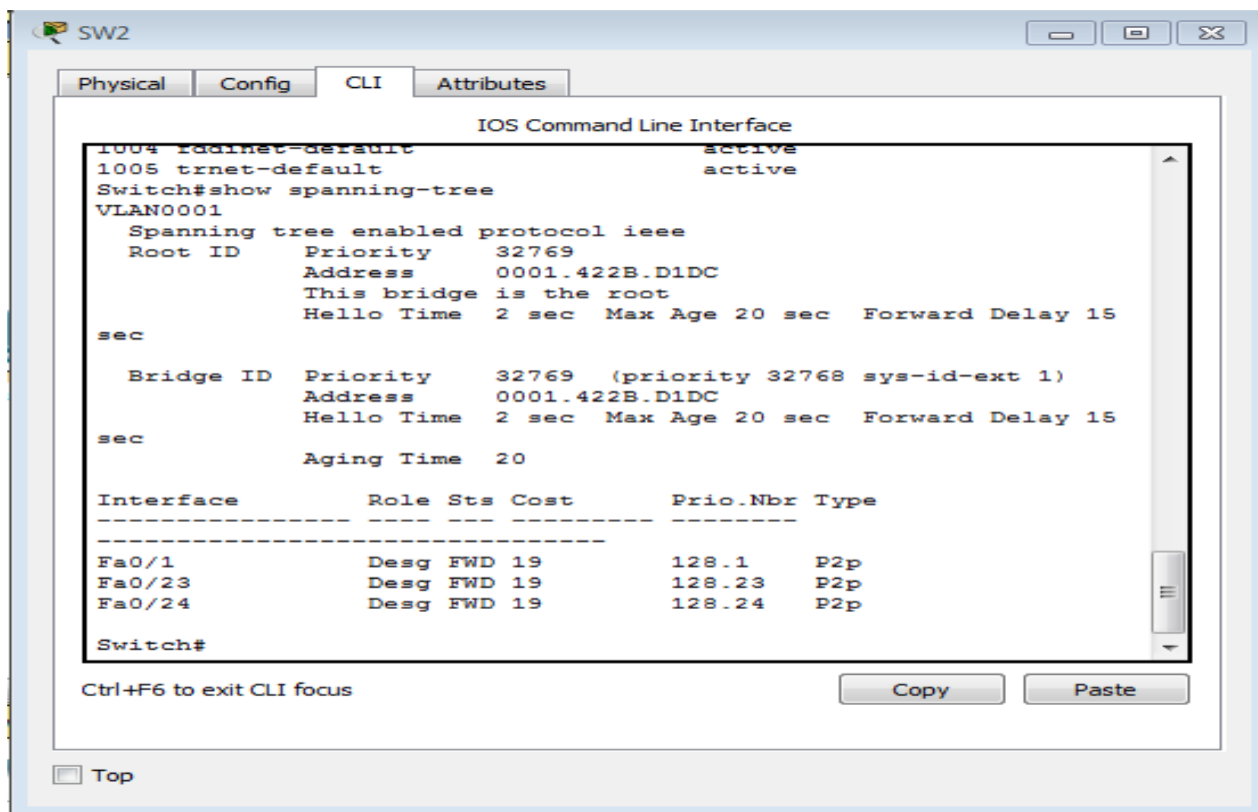
IPv6 DNS Server

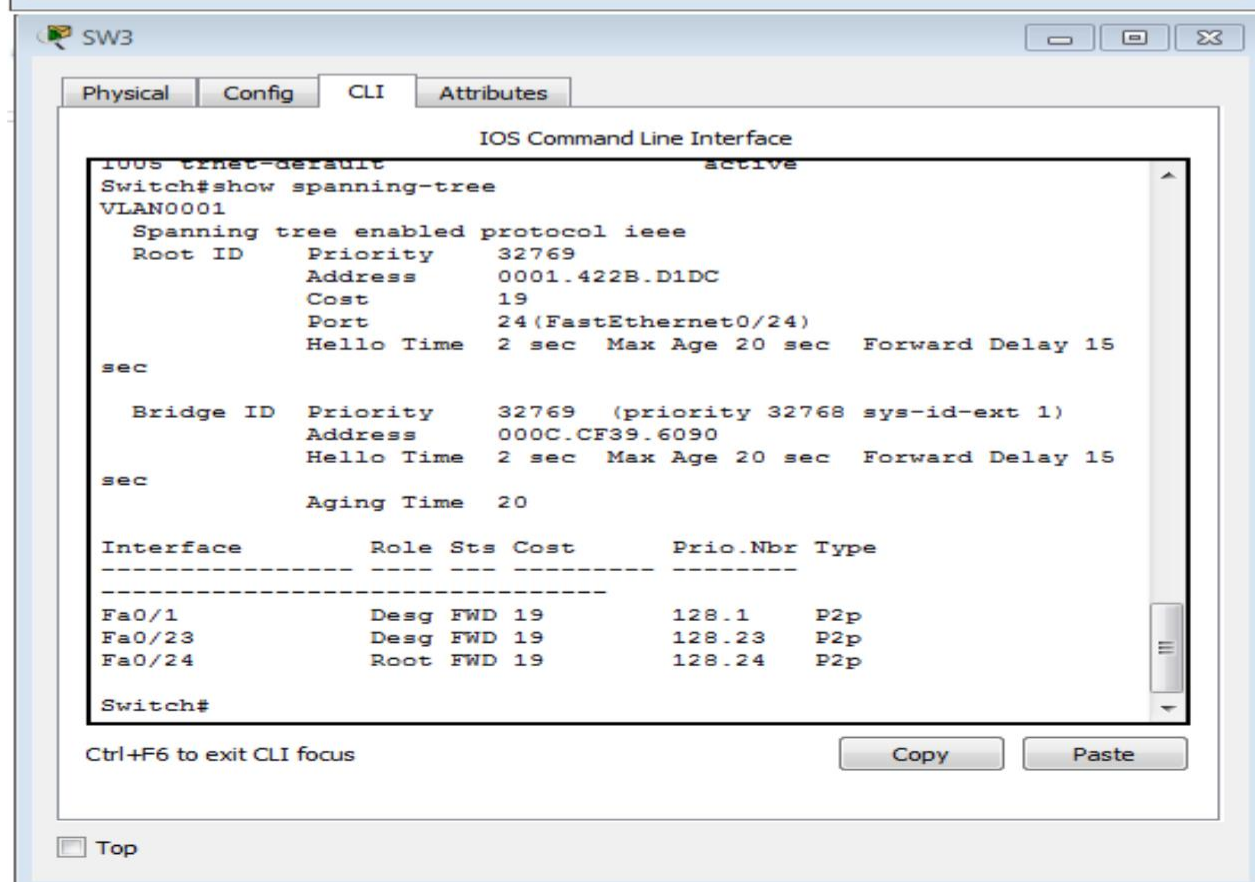
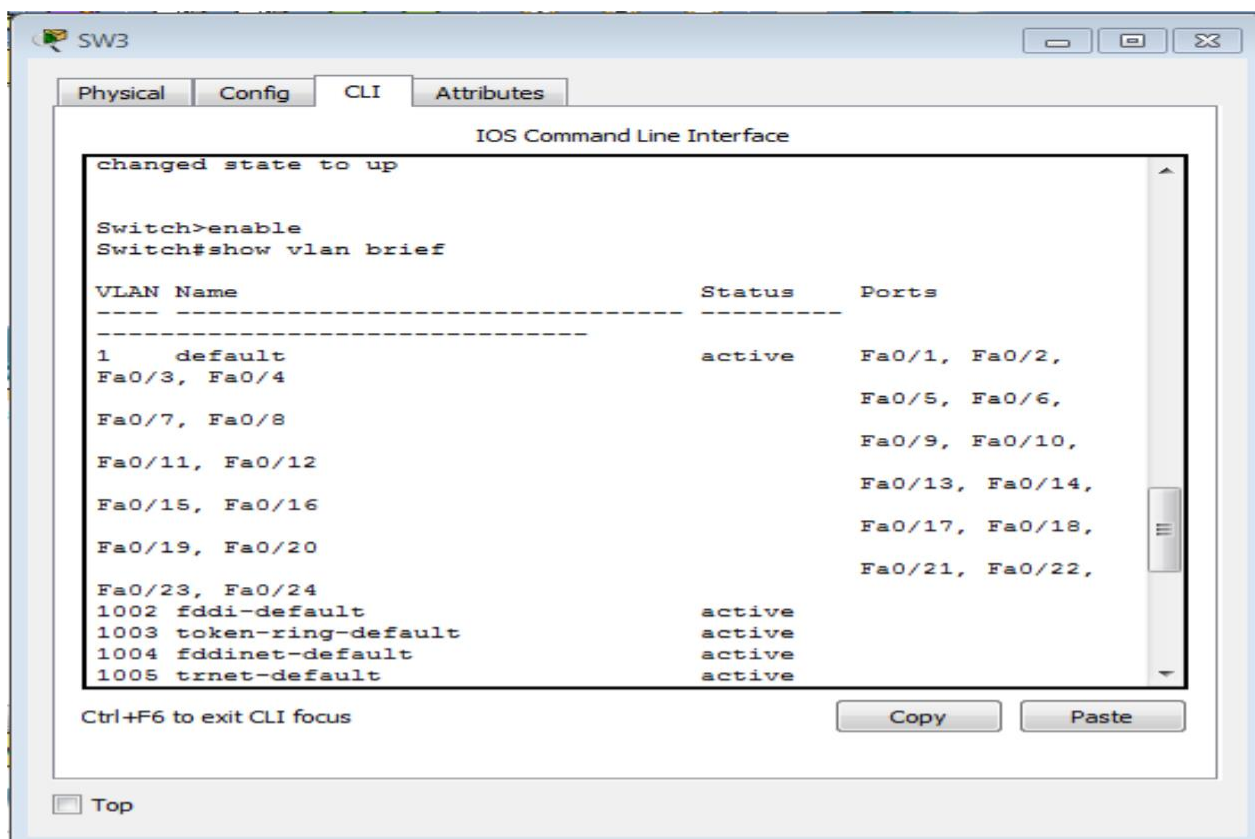
Top

In user / privileged mode, look at the STP status on each switch.

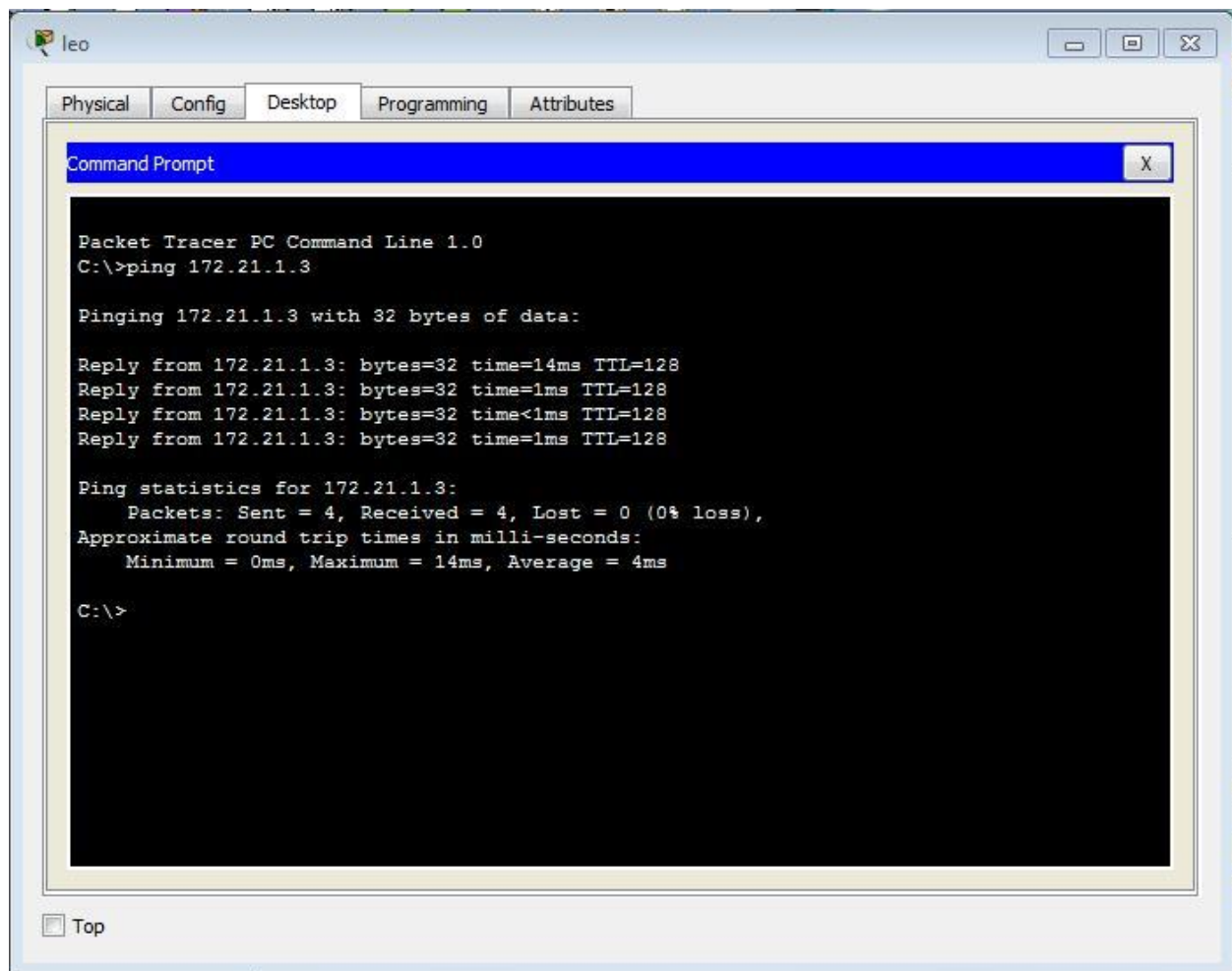
- Enter to mode privileged.
- Type *show spanning tree*





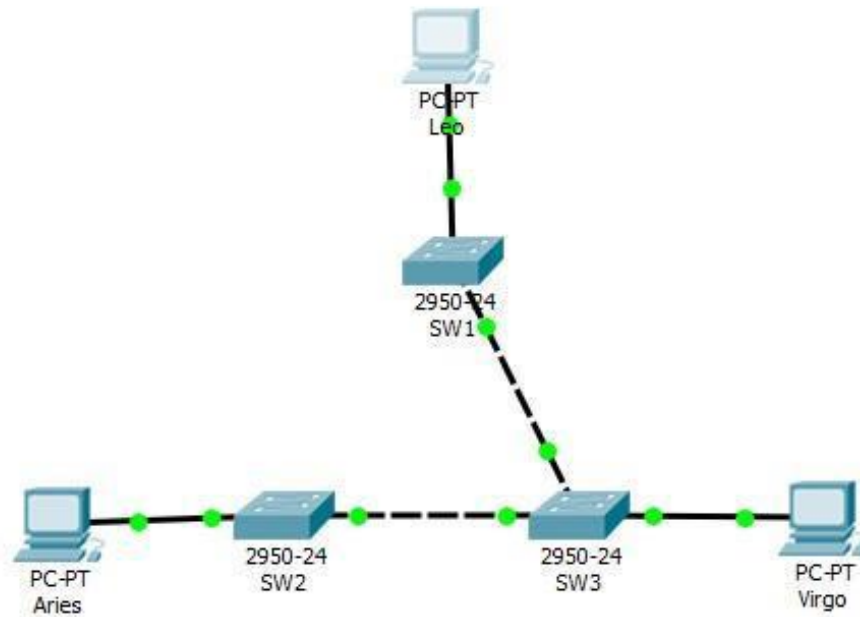


From Leo PC do ping to Virgo PC.

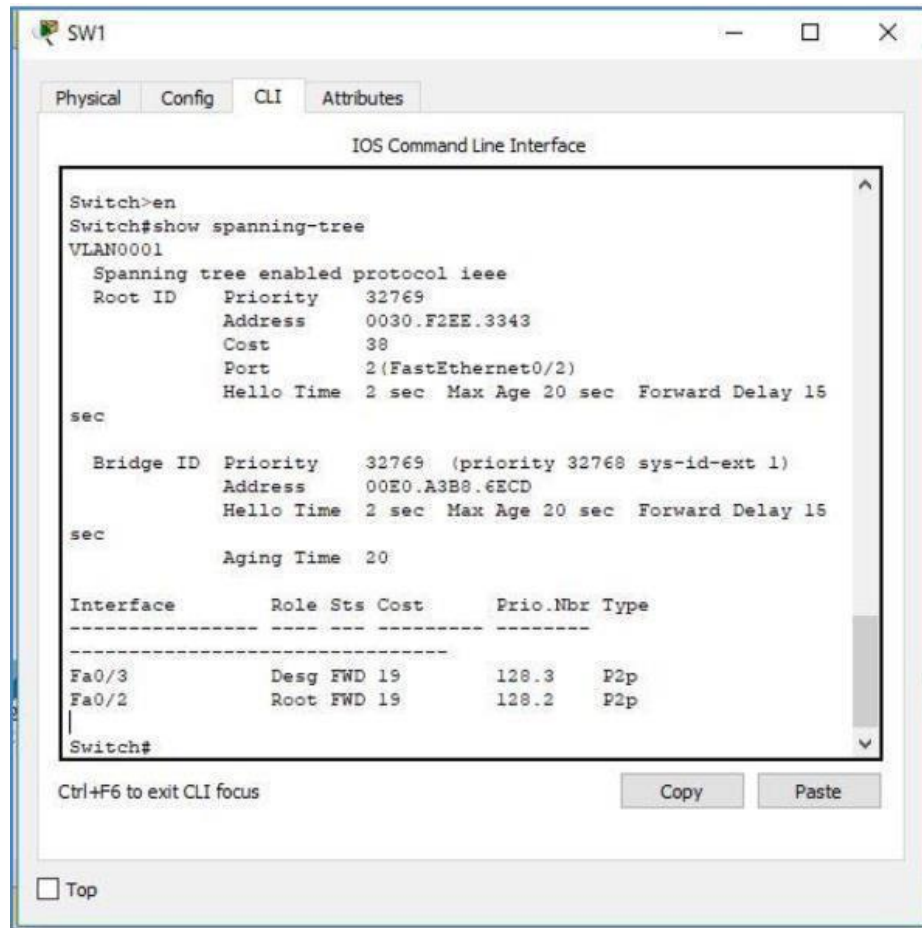


Kegiatan 2 :

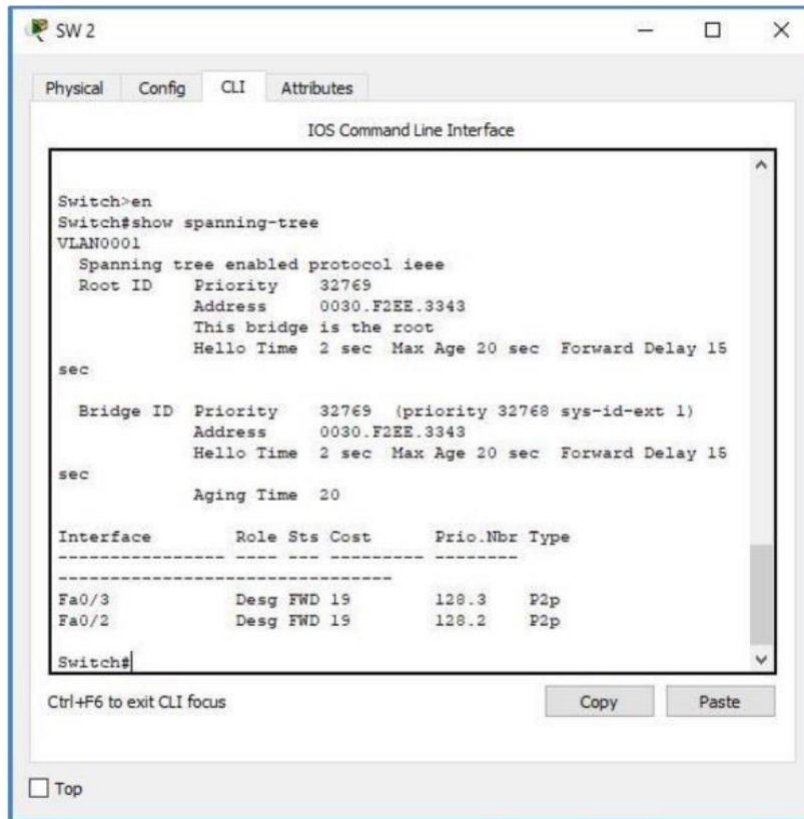
1. Change the topology be a topology below:



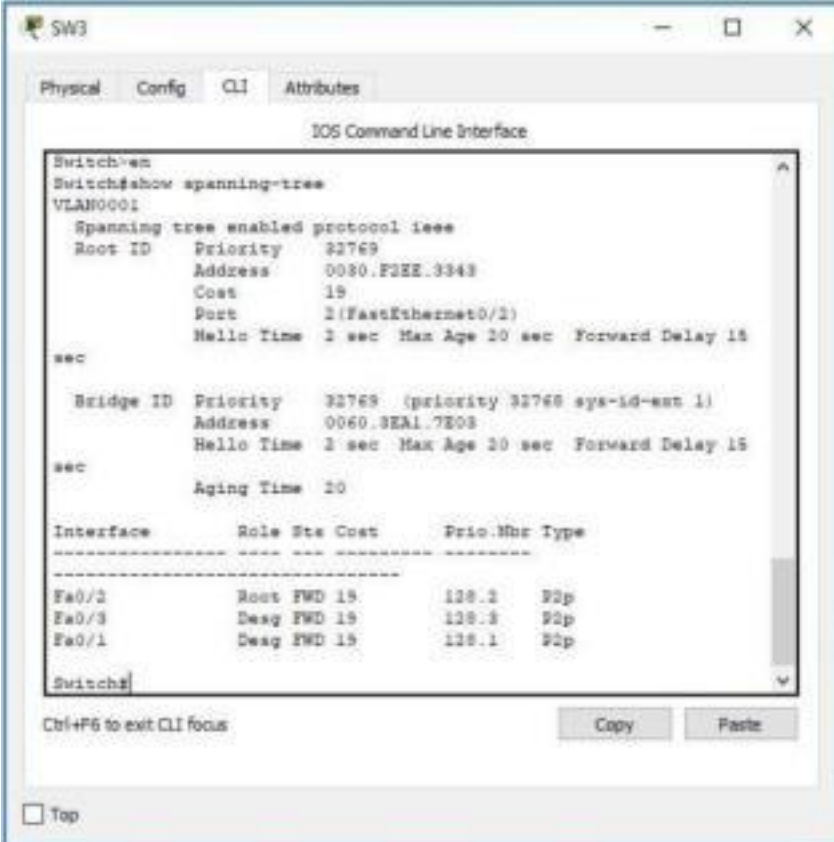
2. SW1



3. SW2



4. SW3



The screenshot shows the CLI interface of a switch named SW3. The 'CLI' tab is selected, and the 'show spanning-tree' command has been executed. The output displays the spanning tree configuration for VLAN0001, including the root ID, bridge ID, and a table of interfaces with their roles and costs.

```
Switch>en
Switch#show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32768
             Address     0080.F2EE.3348
             Cost        19
             Port        2(FastEthernet0/2)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
  Bridge ID  Priority    32768 (priority 32768 sys-id-ext 1)
             Address     0060.3EAE.7E08
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
             Aging Time  20

Interface      Role Sts Cost      Prio.Mbr Type
-----
Fa0/2          Root FWD 19        128.2   P2p
Fa0/3          Desg FWD 19        128.3   P2p
Fa0/1          Desg FWD 19        128.1   P2p

Switch#
```

Below the CLI window, there is a 'Ctrl+F6 to exit CLI focus' label and 'Copy' and 'Paste' buttons. At the bottom left, there is a 'Top' button.

5. Do ping from PC leo to PC virgo

