

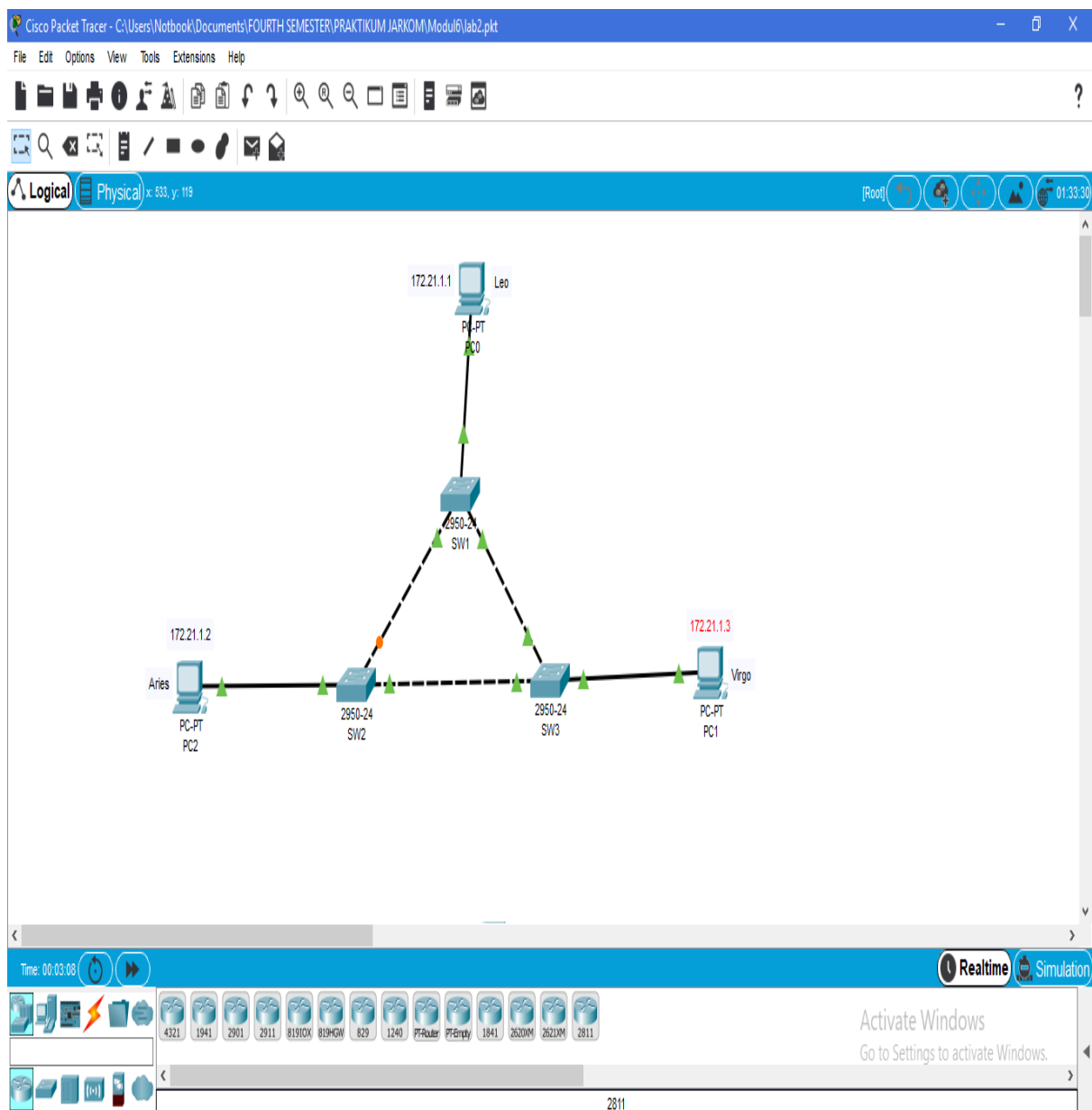
Name : Shidqi Aditya Falah

NIM : L202173001

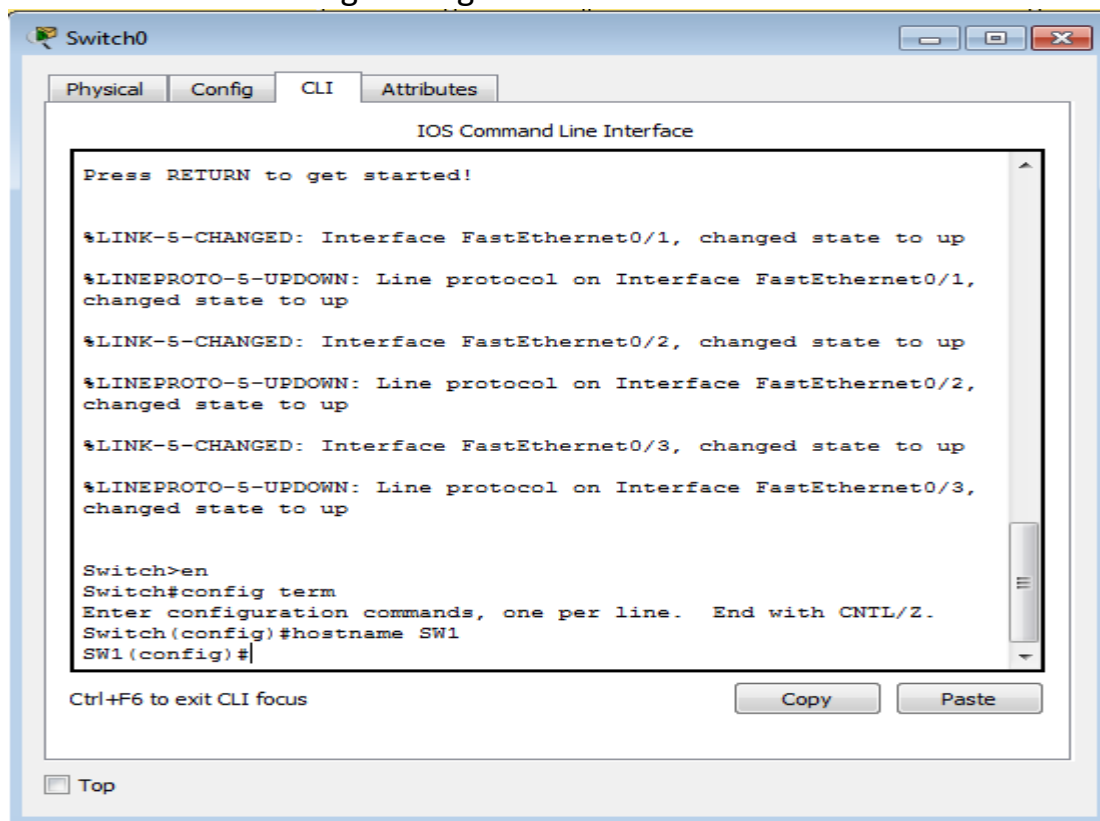
Class : X

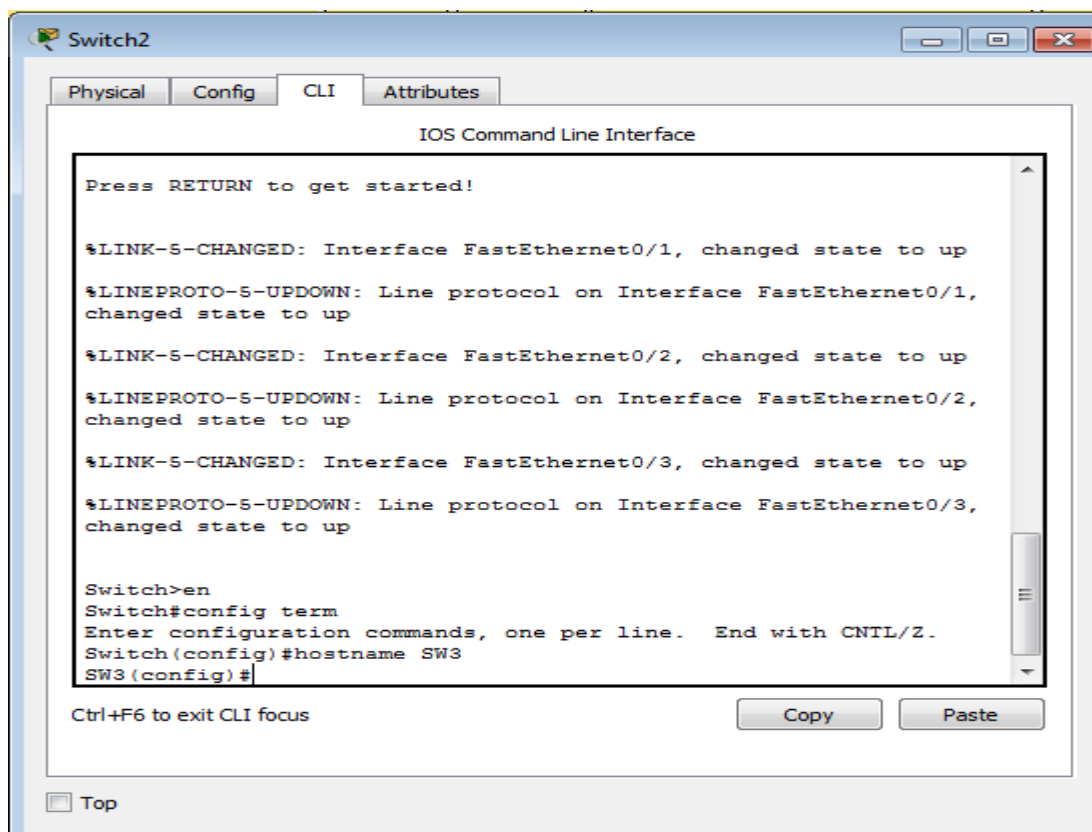
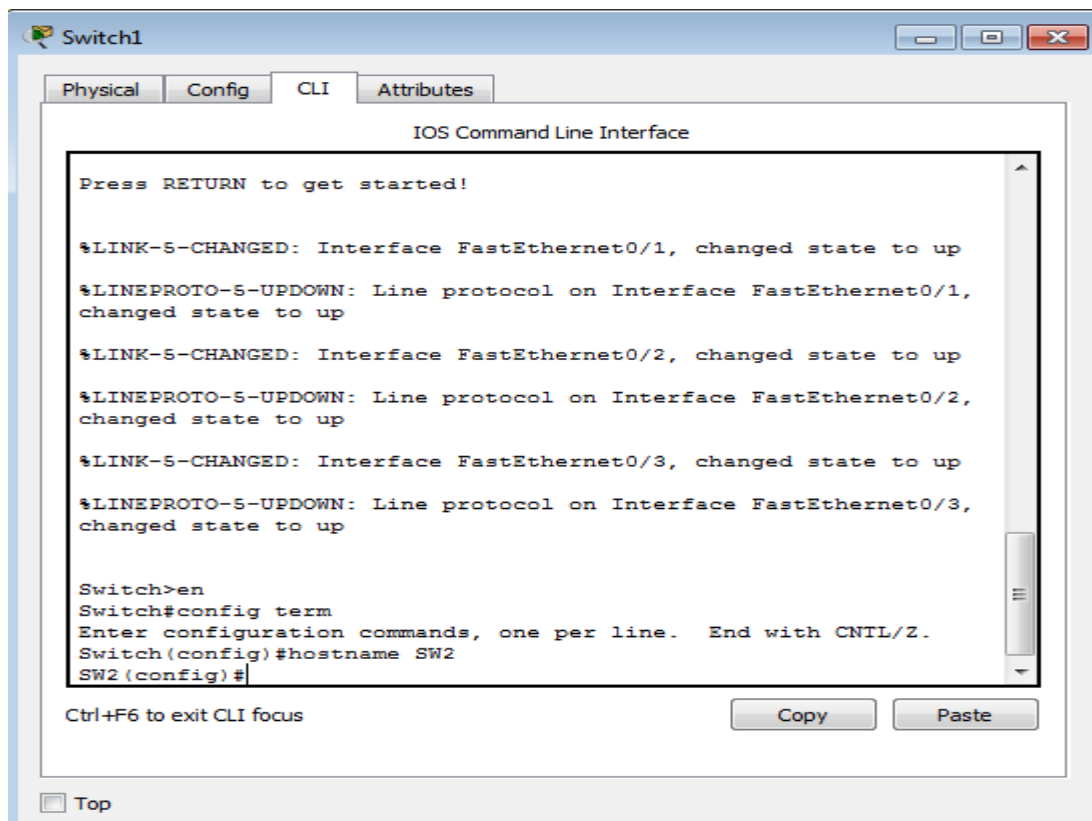
Tugas Modul 6

Kegiatan 1

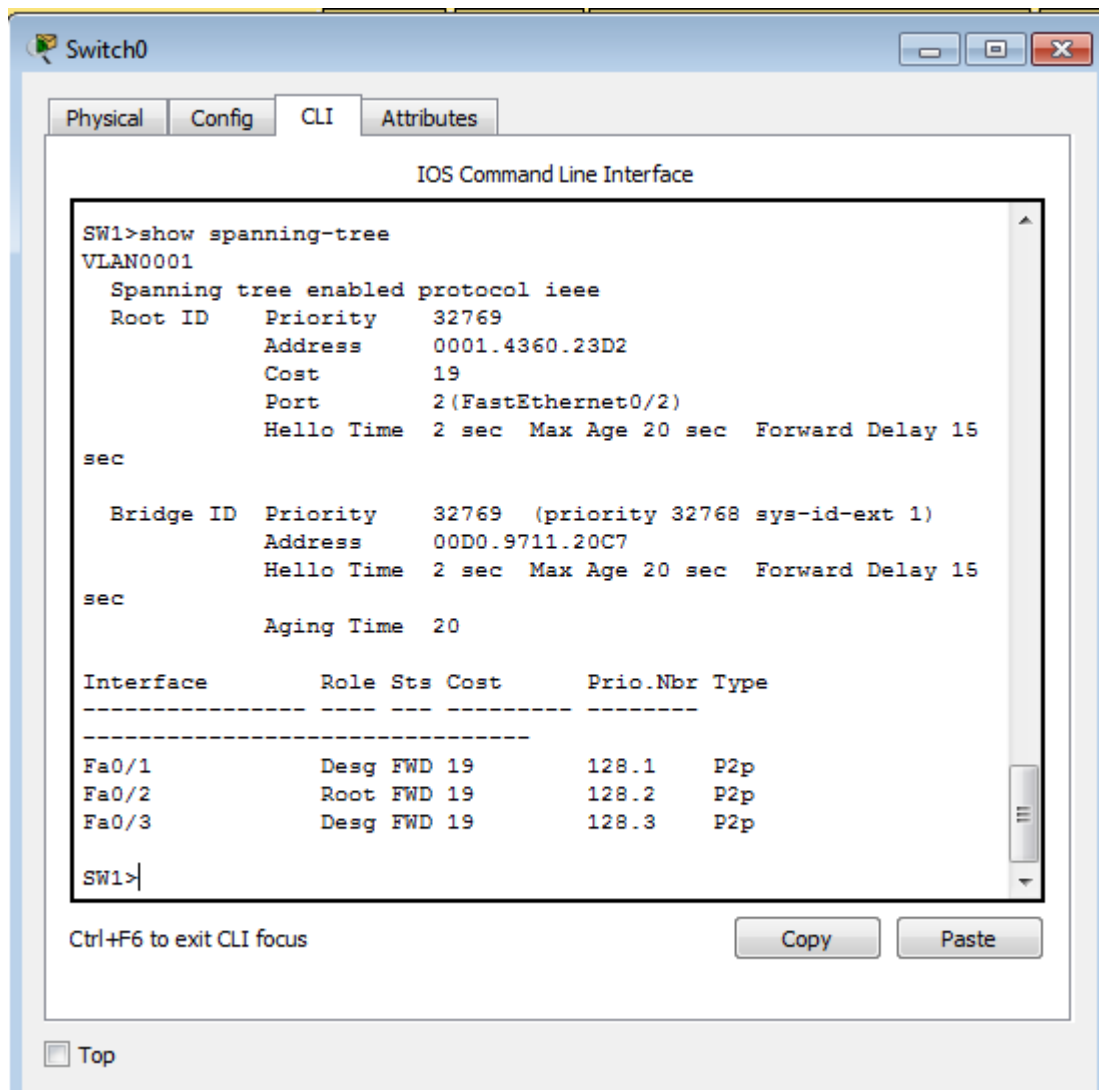


a. Memberi nama masing masing switch





b. Melihat status STP pada masing masing switch



SW2

Physical

Config

CLI

Attributes

IOS Command Line Interface

SW2>show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 32769

Address 0001.4360.23D2

Cost 19

Port 3(FastEthernet0/3)

Hello Time 2 sec Max Age 20 sec Forward Delay 15

sec

Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)

Address 00E0.F946.3CE9

Hello Time 2 sec Max Age 20 sec Forward Delay 15

sec

Aging Time 20

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

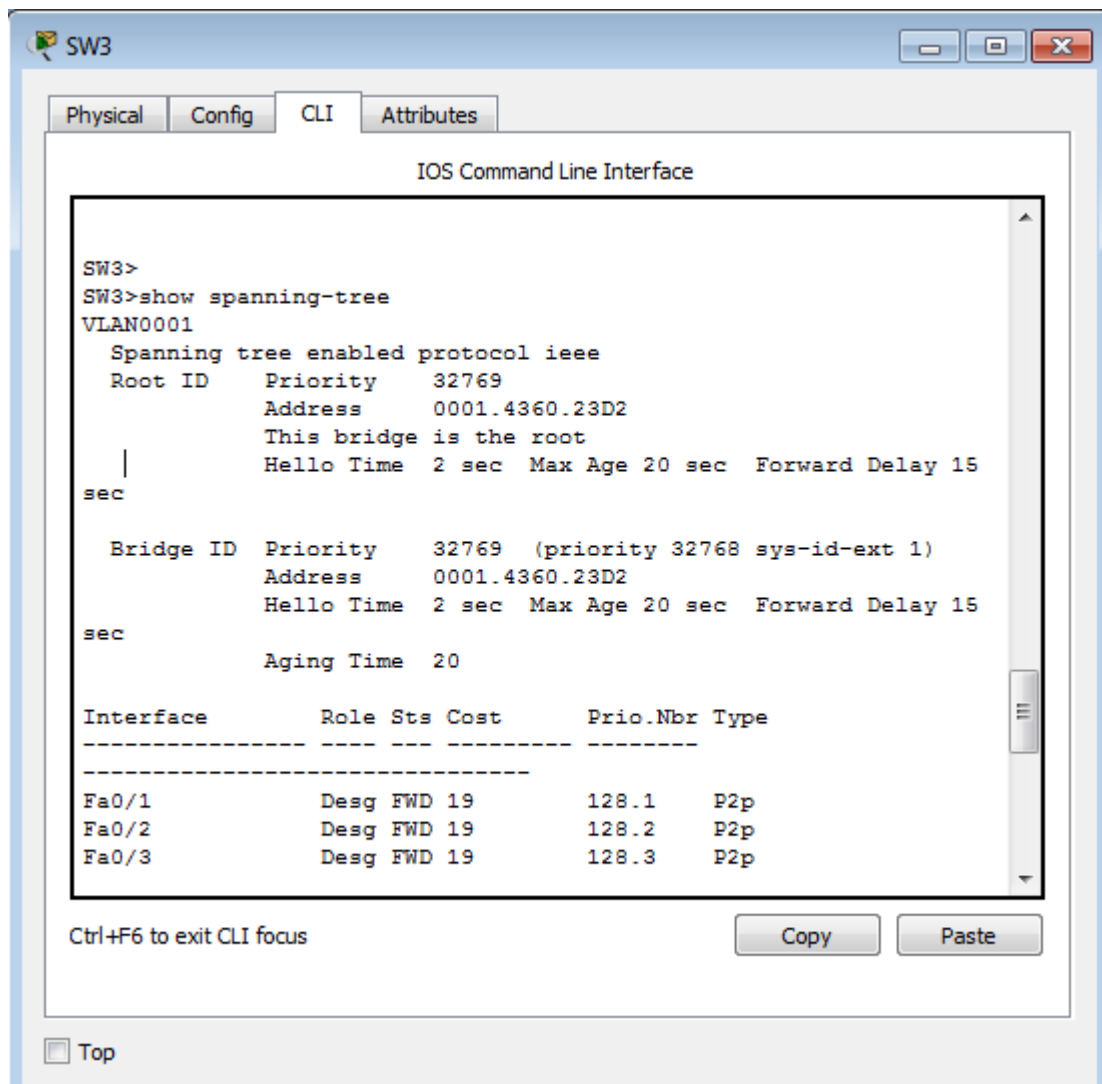
SW2>

Ctrl+F6 to exit CLI focus

Copy

Paste

☐ Top



c. Tabel
SW1

No.	Variabel	Nilai
1.	Root ID	32769:0001.4360.23D2
2.	Priority	32769
3.	MAC Address	000D0.9711.20C7
4.	Bridge ID	32769:00D0.9711.20C7
5.	Cost	19
6.	Hello Time	2 Sec
7.	Max Age	20 Sec
8.	Forward Delay	15 Sec

SW2

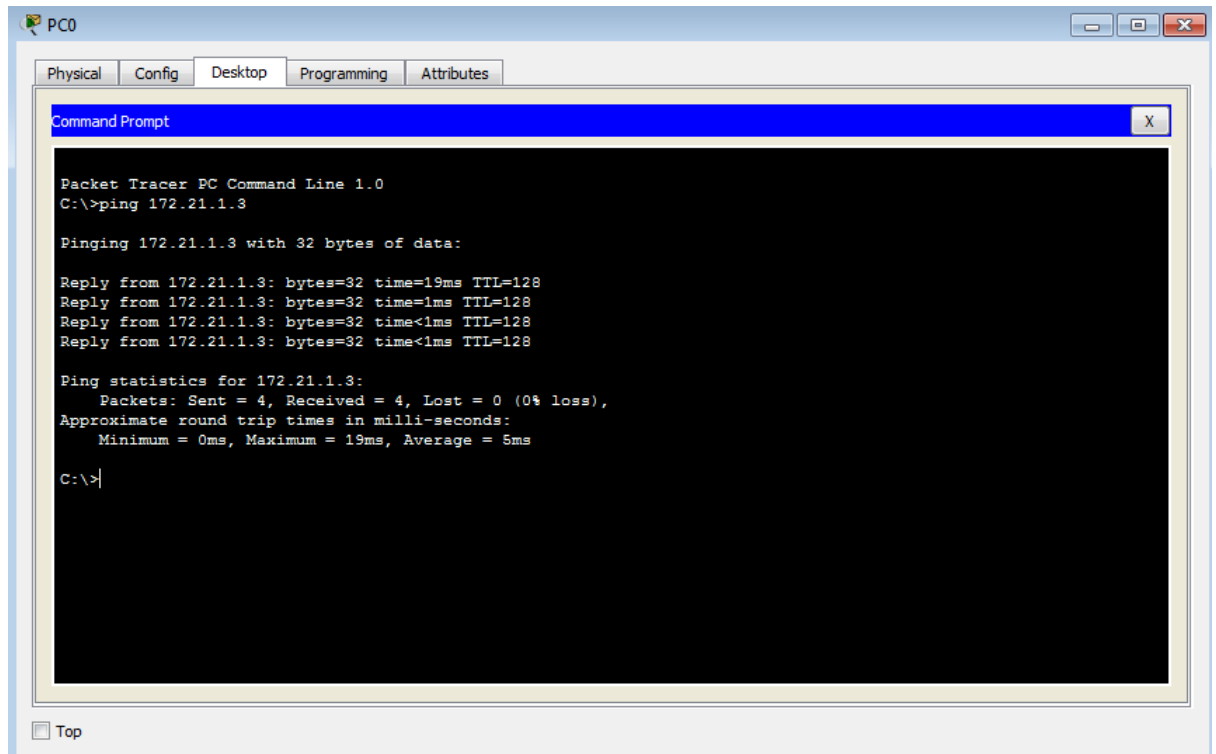
No.	Variabel	Nilai
1.	Root ID	32769:0001.4360.23D2
2.	Priority	32769
3.	MAC Address	00E0.F946.3CEG
4.	Bridge ID	32769:00E0.F946.3CEG
5.	Cost	19
6.	Hello Time	2 Sec
7.	Max Age	20 Sec
8.	Forward Delay	15 Sec

SW3

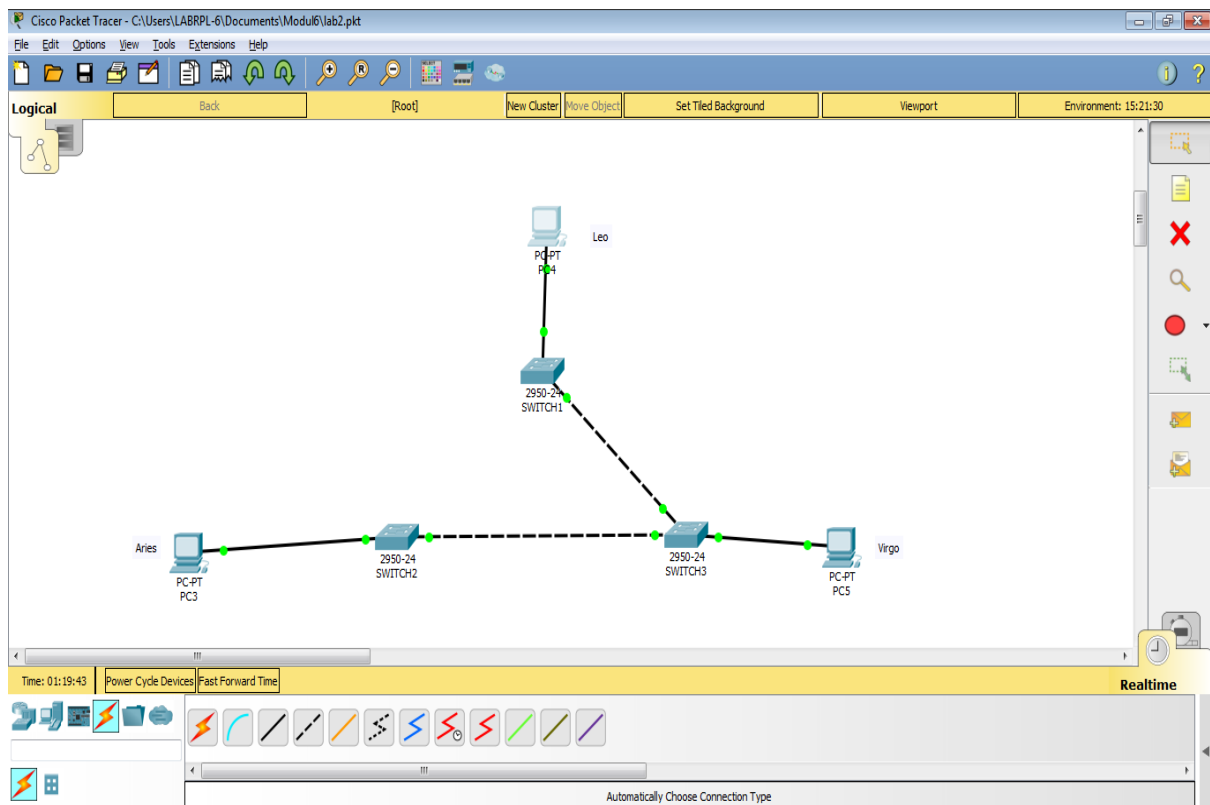
No.	Variabel	Nilai
1.	Root ID	32769:0001.4360.23D2
2.	Priority	32769
3.	MAC Address	0001.4360.23D2
4.	Bridge ID	32769:0001.4360.23D2
5.	Cost	19
6.	Hello Time	2 Sec
7.	Max Age	20 Sec
8.	Forward Delay	15 Sec

- d. Root Bridge
 - (SW3)
- e. Designated Bridge
 - (SW1)
- f. Root Port:
 - SW1 (Fa 0/2)
 - SW2 (Fa 0/3)
- g. Designated Port
 - SW1 (Fa 0/1, Fa 0/3)
 - SW2 (Fa 0/1)
 - SW3 (Fa 0/1, Fa 0/2, Fa 0/3)
- h. Port Forwarding
 - SW1 (Fa 0/1 FWD, Fa 0/2 FWD, Fa 0/3 FWD)
 - SW2 (Fa 0/1 FWD, Fa 0/3 FWD)
 - SW3 (Fa 0/1 FWD, Fa 0/2 FWD, Fa 0/3 FWD)
- i. Port Blocking
 - SW2 (Fa 0/2 BLK)

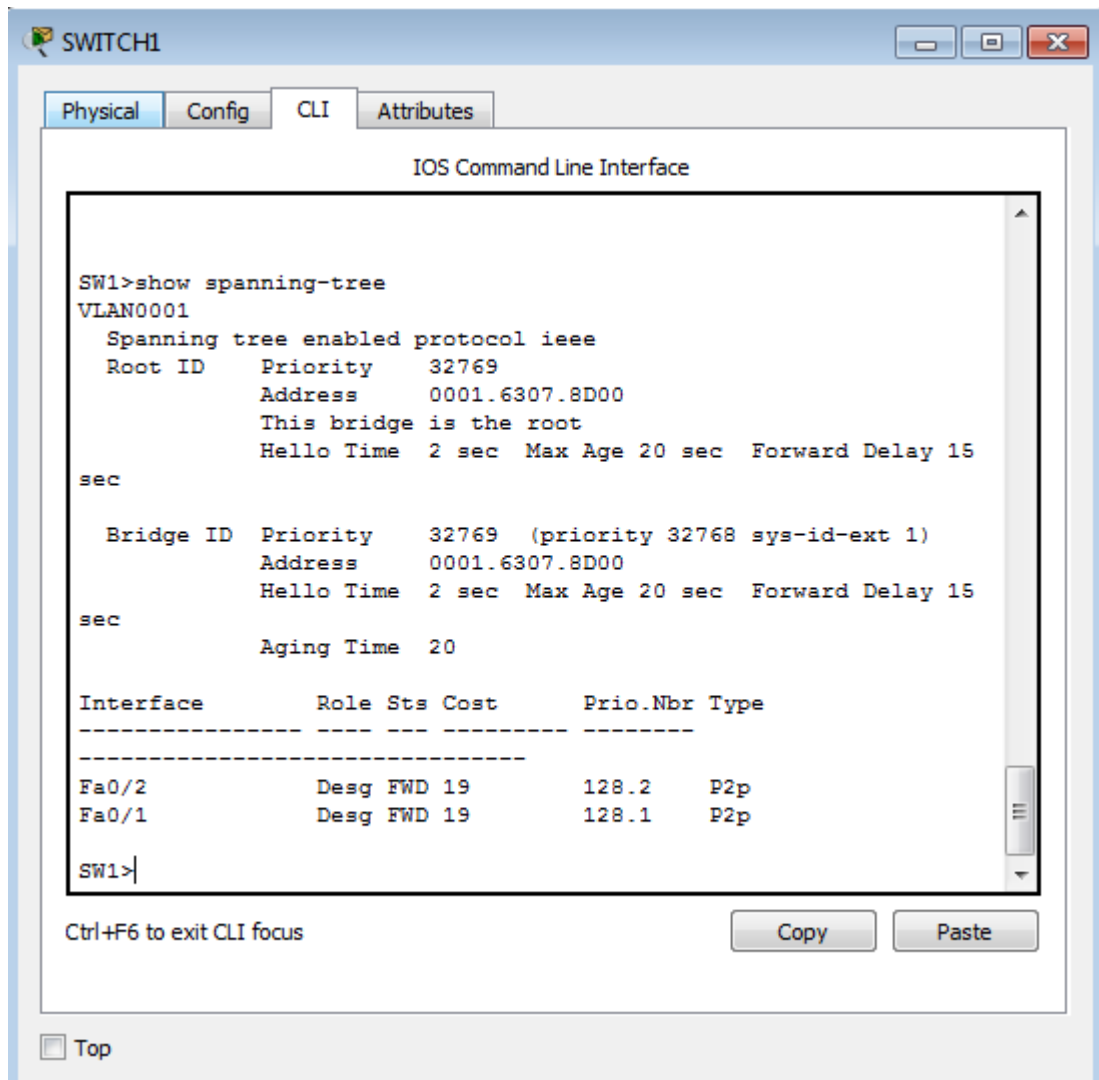
j. Ping PC Leo ke PC Virgo



Kegiatan 2



- a. Melihat status STP pada masing masing switch



The screenshot shows a network switch window titled "SWITCH1" with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the "IOS Command Line Interface". The command "SW1>show spanning-tree" has been entered, showing the STP status for VLAN0001. The output indicates that the spanning tree is enabled using the IEEE protocol, with the root bridge having a priority of 32769 and address 0001.6307.8D00. The bridge is identified as the root. The Hello Time is 2 seconds, Max Age is 20 seconds, and Forward Delay is 15 seconds. The Bridge ID is 32769 (priority 32768 sys-id-ext 1) with address 0001.6307.8D00. The Aging Time is 20 seconds. A table shows the status of interfaces Fa0/2 and Fa0/1, both in the Designated (Desg) state with a Forward Delay (FWD) of 19 seconds, priority 128.2 and 128.1 respectively, and P2p link type.

```
SW1>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.6307.8D00
             This bridge is the root
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address     0001.6307.8D00
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec
             Aging Time  20

Interface          Role Sts Cost          Prio.Nbr Type
-----
Fa0/2              Desg FWD 19          128.2    P2p
Fa0/1              Desg FWD 19          128.1    P2p

SW1>
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

SWITCH2

Physical

Config

CLI

Attributes

IOS Command Line Interface

SW2>show spanning-tree

VLAN0001

Spanning tree enabled protocol ieee

Root ID Priority 32769

Address 0001.6307.8D00

Cost 38

Port 2(FastEthernet0/2)

Hello Time 2 sec Max Age 20 sec Forward Delay 15

sec

Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)

Address 0001.970A.7C00

Hello Time 2 sec Max Age 20 sec Forward Delay 15

sec

Aging Time 20

Interface	Role	Sts	Cost	Prio.Nbr	Type

Fa0/1	Desg	FWD	19	128.1	P2p
Fa0/2	Root	FWD	19	128.2	P2p

SW2>

Ctrl+F6 to exit CLI focus

Copy

Paste

Top

The screenshot shows a network switch window titled 'SWITCH3' with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the 'IOS Command Line Interface'. The command 'SW3>show spanning-tree' has been entered, showing the configuration for 'VLAN0001'. The output indicates that the spanning tree is enabled with the IEEE protocol. The root ID is 32769 with a priority of 32769 and a MAC address of 0001.6307.8D00. The cost is 19, and the port is 2 (FastEthernet0/2). The hello time is 2 seconds, the max age is 20 seconds, and the forward delay is 15 seconds. The bridge ID is also 32769 with a priority of 32768 and a MAC address of 000B.BE61.9252. The aging time is 20 seconds. A table at the bottom shows the status of the interfaces: Fa0/1 is Designated Forwarder (Desg FWD) with a cost of 19, priority 128.1, and P2p type; Fa0/2 is Root Forwarder (Root FWD) with a cost of 19, priority 128.2, and P2p type; Fa0/3 is Designated Forwarder (Desg FWD) with a cost of 19, priority 128.3, and P2p type. The window also includes a 'Ctrl+F6 to exit CLI focus' message and 'Copy' and 'Paste' buttons.

```

SW3>show spanning-tree
VLAN0001
  Spanning tree enabled protocol ieee
  Root ID    Priority    32769
             Address     0001.6307.8D00
             Cost        19
             Port        2 (FastEthernet0/2)
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec

  Bridge ID  Priority    32769 (priority 32768 sys-id-ext 1)
             Address     000B.BE61.9252
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15
sec

             Aging Time  20

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

SW3>
  
```

b. Tabel

SWITCH1

No.	Variabel	Nilai
1.	Root ID	32769:0001.6307.8D00
2.	Priority	32769
3.	MAC Address	0001.6307.8D00
4.	Bridge ID	32769: 0001.6307.8D00
5.	Cost	19
6.	Hello Time	2 Sec
7.	Max Age	20 Sec
8.	Forward Delay	15 Sec

SWITCH2

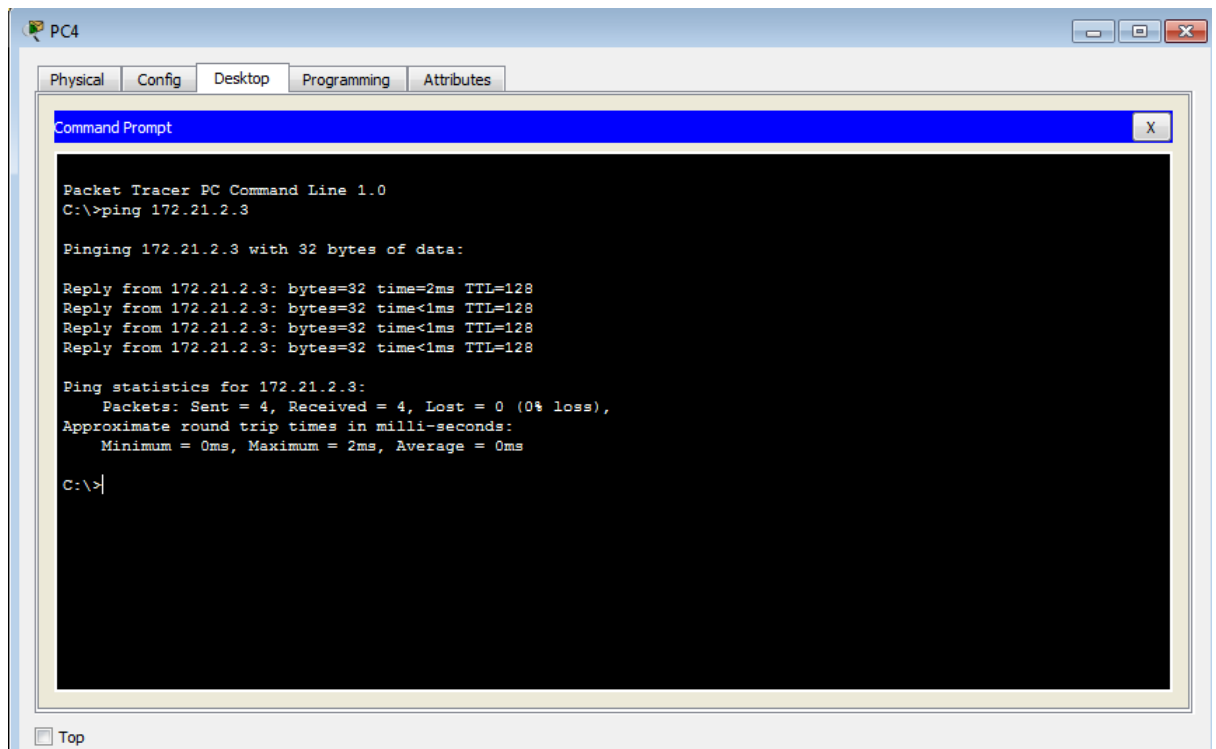
No.	Variabel	Nilai
1.	Root ID	32769: 0001.6307.8D00
2.	Priority	32769
3.	MAC Address	0001.970A:7C00
4.	Bridge ID	32769: 0001.970A:7C00
5.	Cost	38
6.	Hello Time	2 Sec
7.	Max Age	20 Sec
8.	Forward Delay	15 Sec

SWITCH3

No.	Variabel	Nilai
1.	Root ID	32769: 0001.6307.8D00
2.	Priority	32769
3.	MAC Address	000B.BE61.9252
4.	Bridge ID	32769: 000B.BE61.9252
5.	Cost	19
6.	Hello Time	2 Sec
7.	Max Age	20 Sec
8.	Forward Delay	15 Sec

- c. Root Bridge
 - (SWITCH1)
- d. Designated Bridge
 - (SWITCH3)
- e. Root Port:
 - SWITCH2 (Fa 0/2)
 - SWITCH3 (Fa 0/2)
- f. Designated Port
 - SWITCH1 (Fa 0/1, Fa 0/2)
 - SWITCH2 (Fa 0/1)
 - SWITCH3 (Fa 0/1, Fa 0/3)
- g. Port Forwarding
 - SWITCH1 (Fa 0/1 FWD, Fa 0/2 FWD)
 - SWITCH2 (Fa 0/1 FWD, Fa 0/2 FWD)
 - SWITCH3 (Fa 0/1 FWD, Fa 0/2 FWD, Fa 0/3 FWD)
- h. Port Blocking
 - NONE

i. Ping PC Leo ke PC Virgo



The screenshot shows a Packet Tracer PC window titled 'PC4'. It has tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The command prompt shows the execution of a ping command to 172.21.2.3, resulting in four successful replies with 0% loss.

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.2.3

Pinging 172.21.2.3 with 32 bytes of data:

Reply from 172.21.2.3: bytes=32 time=2ms TTL=128
Reply from 172.21.2.3: bytes=32 time<1ms TTL=128
Reply from 172.21.2.3: bytes=32 time<1ms TTL=128
Reply from 172.21.2.3: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.2.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>|
```

At the bottom left of the PC window, there is a 'Top' button.