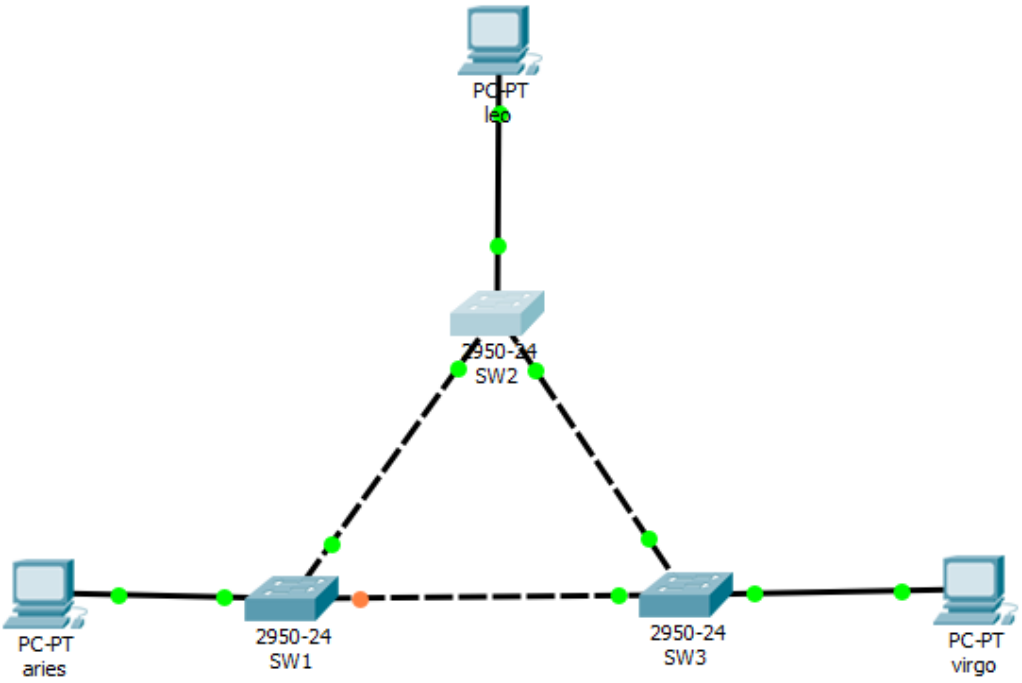
Name : Muhammad Rafi
NIM : L200174138

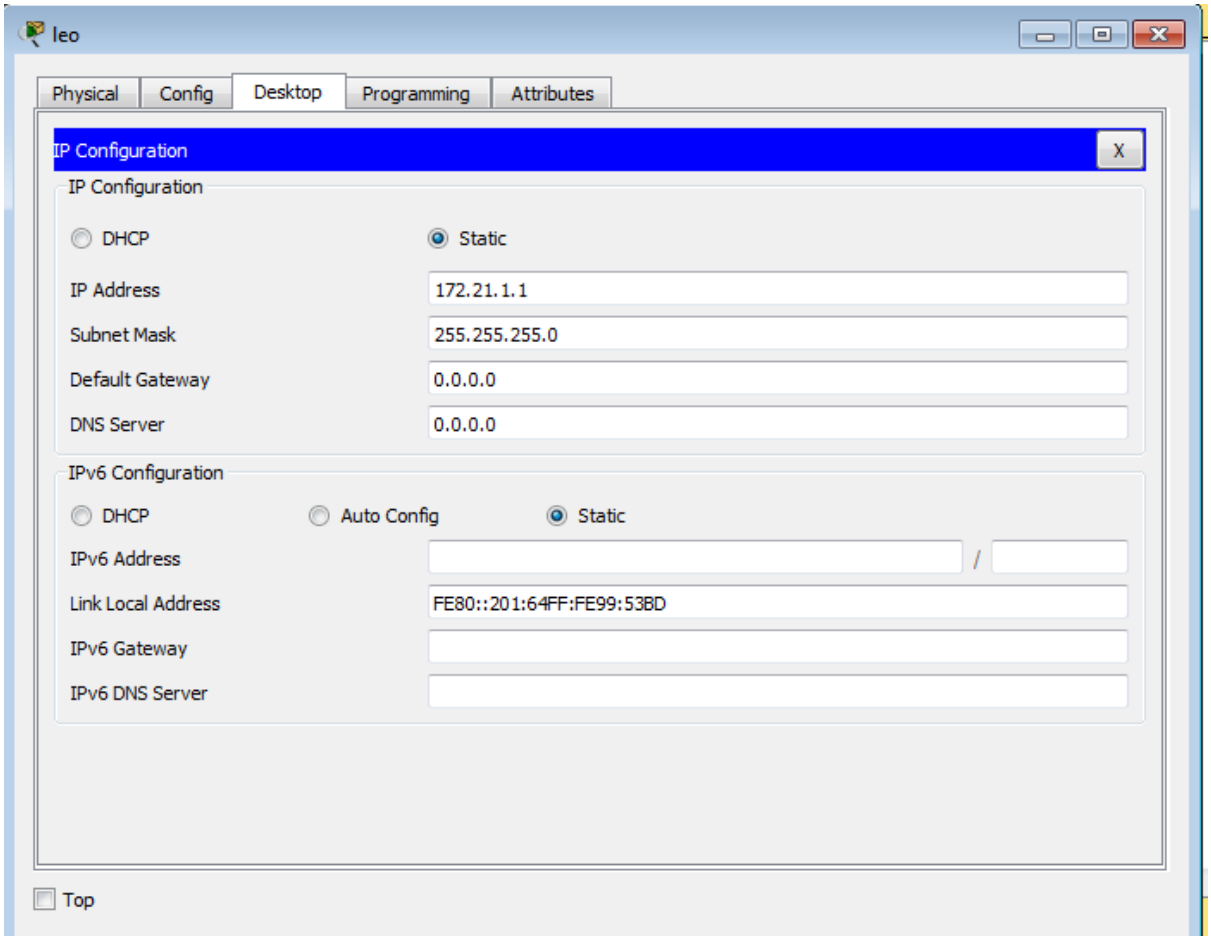
Tugas Modul 6

Kegiatan 1

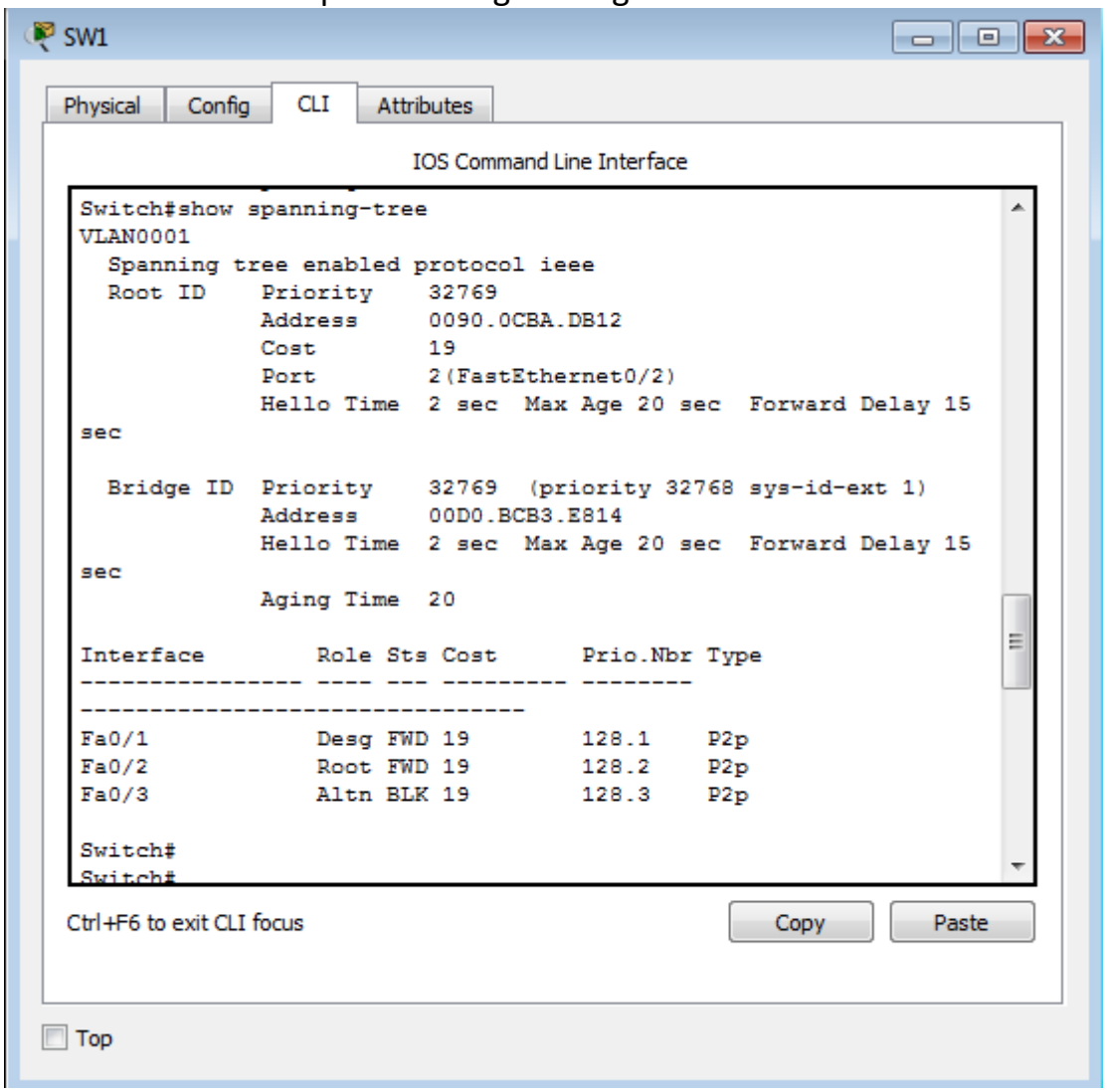
1.Merangkai jaringan

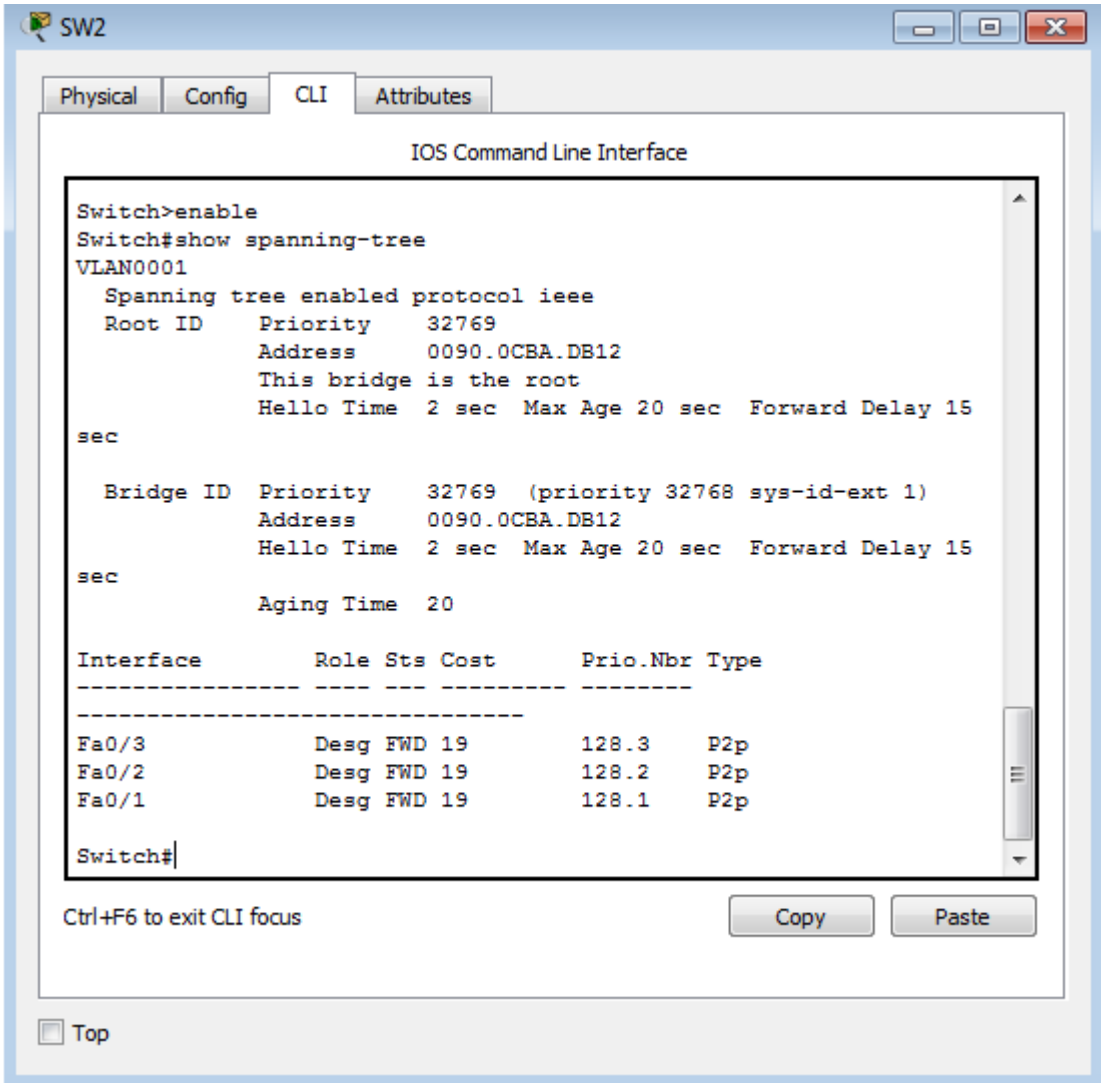


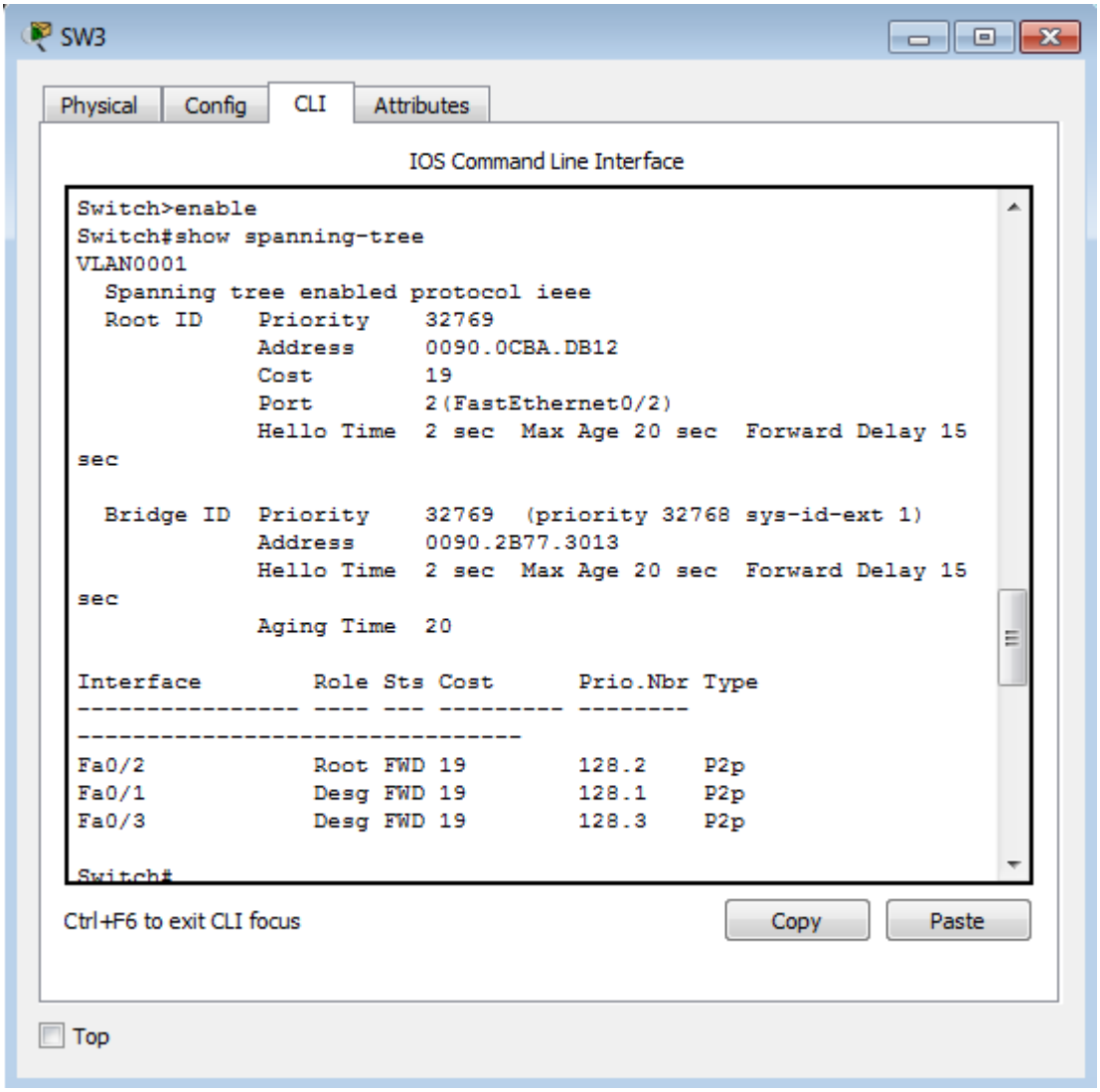
2.Mengubah IP PC yang terhubung ke Switch


leo
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
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
DHCP
Auto Config
Static
IPv6 Address
/
Link Local Address
FE80::201:64FF:FE99:53BD
IPv6 Gateway
IPv6 DNS Server
Top

3.Melihat status STP pada masing-masing Switch




SW2
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>enable
Switch#show spanning-tree
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 32769
Address 0090.0CBA.DB12
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 0090.0CBA.DB12
Hello Time 2 sec Max Age 20 sec Forward Delay 15
sec
Aging Time 20
Interface Role Sts Cost Prio.Nbr Type
Fa0/3 Desg FWD 19 128.3 P2p
Fa0/2 Desg FWD 19 128.2 P2p
Fa0/1 Desg FWD 19 128.1 P2p
Switch#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top



Switch 1

No	Variabel	Nilai
1	Root ID	32769:00D0.BCB3.E814
2	Priority	32769
3	MAC Adress	00D0.BCB3.E814
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15

Switch 2

No	Variabel	Nilai
1	Root ID	32769:0090.DCBA.DB12
2	Priority	32769
3	MAC Adress	0090.DCBA.DB12
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15

Switch 3

No	Variabel	Nilai
1	Root ID	32769:0090.2B77.3013
2	Priority	32769
3	MAC Adress	0090.2B77.3013
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	19;19;19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15

4.Menentukan :

-Root Bridge (**SW2**)

-Designated Bridge (**SW3**)

-Root Port (**SW1**(**0/2**) & **SW3**(**0/2**))

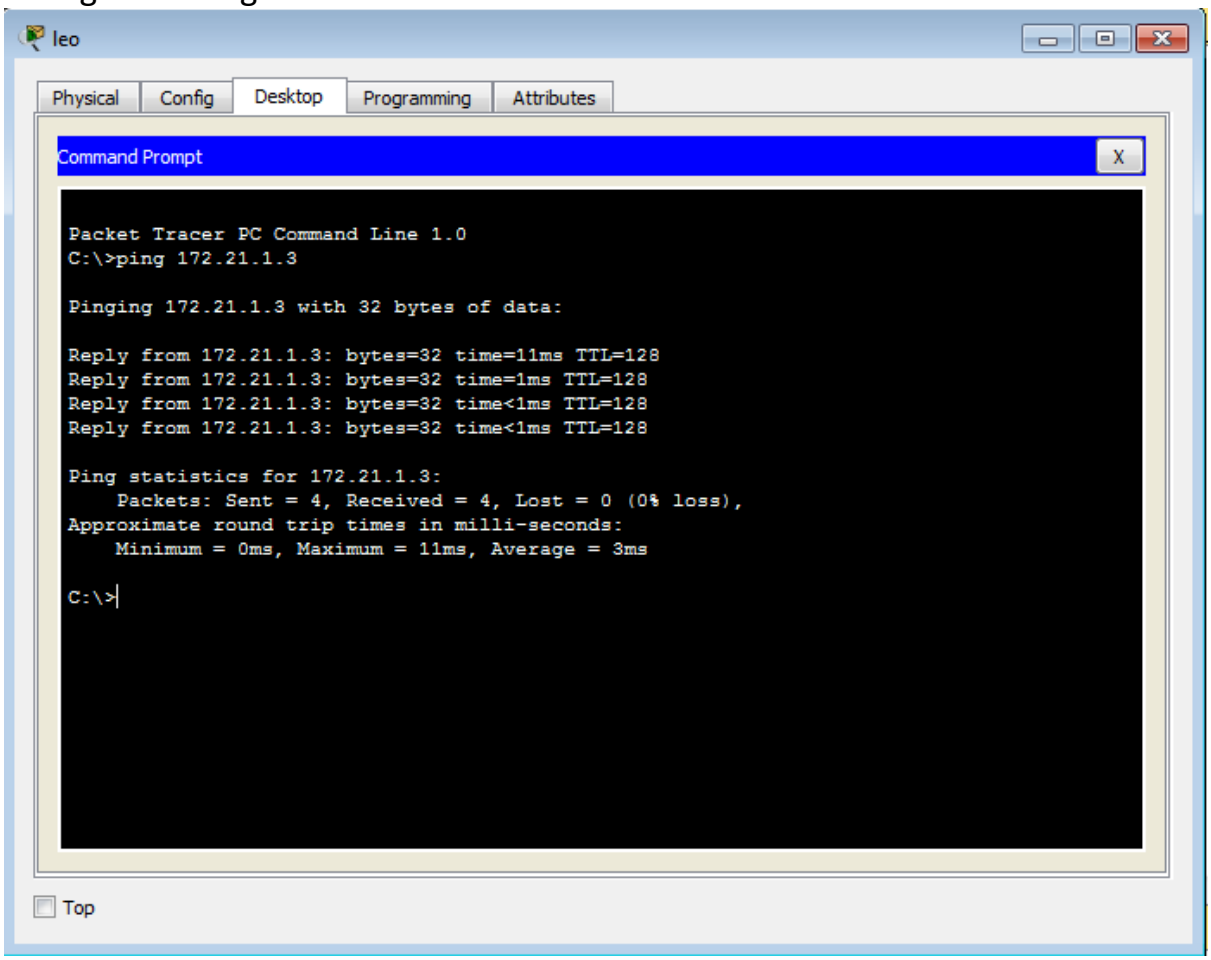
-Designated Port (**SW3**(**0/3**))

-Keadaan Forwarding

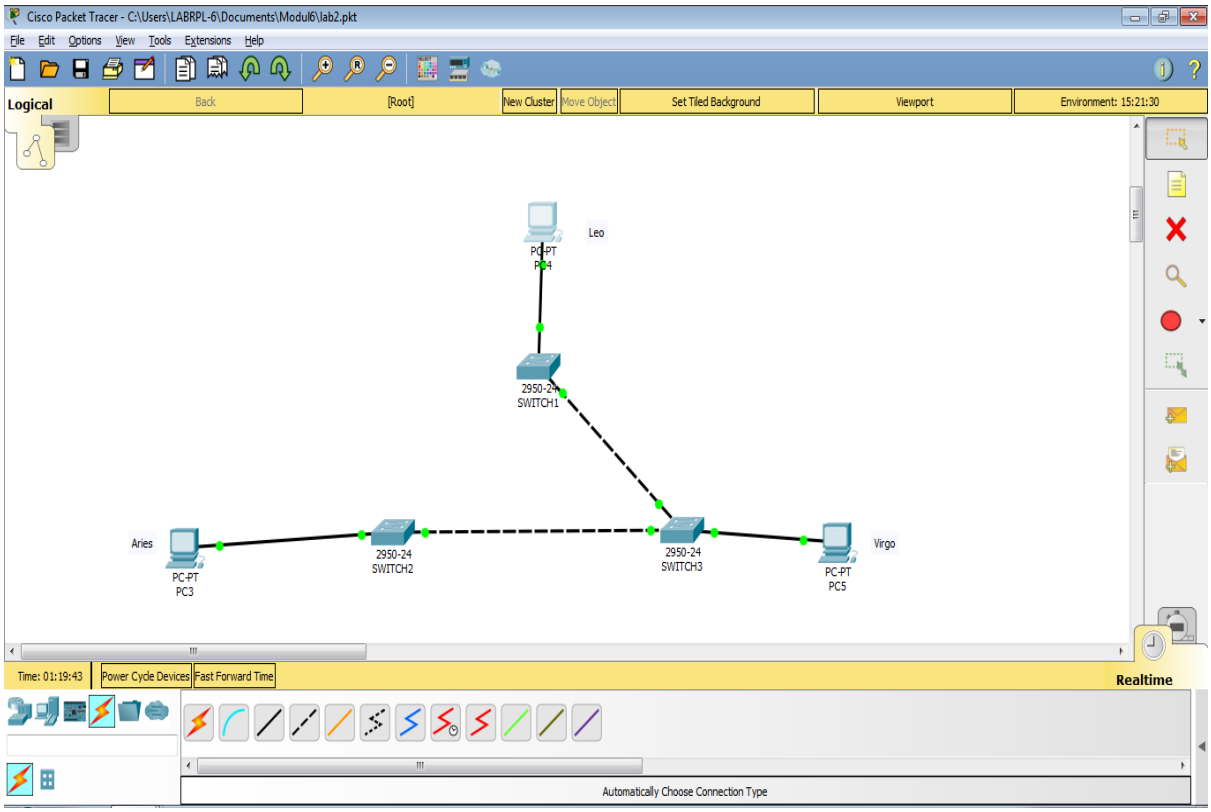
((**SW1**(**0/1**),(**0/2**))||(**SW2**(**0/1**),(**0/2**),(**0/3**))||(**SW3**(**0/1**),(**0/2**),(**0/3**)))

-Keadaan Blocking (**SW1**(**0/3**))

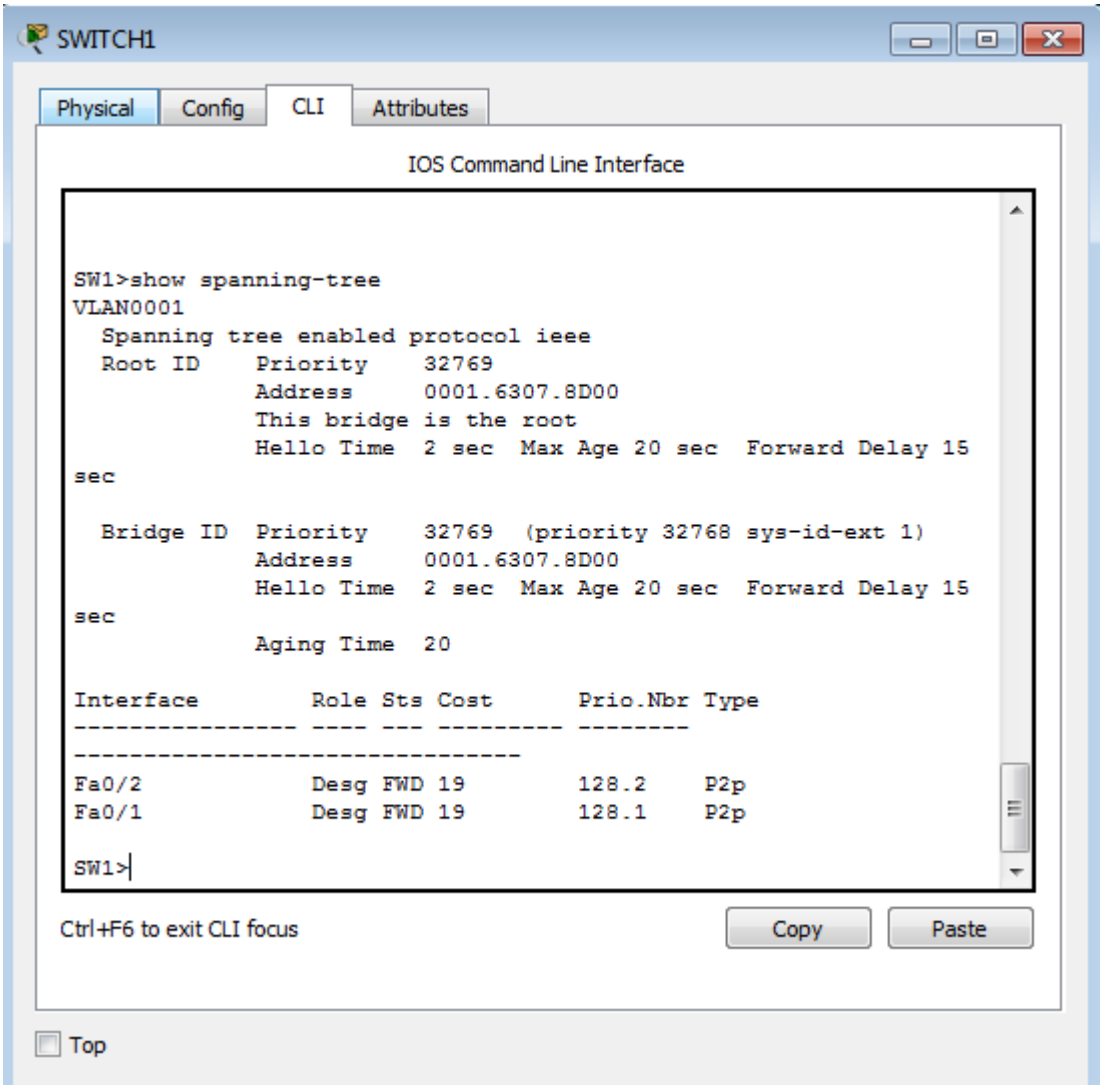
5.Ping ke PC Virgo

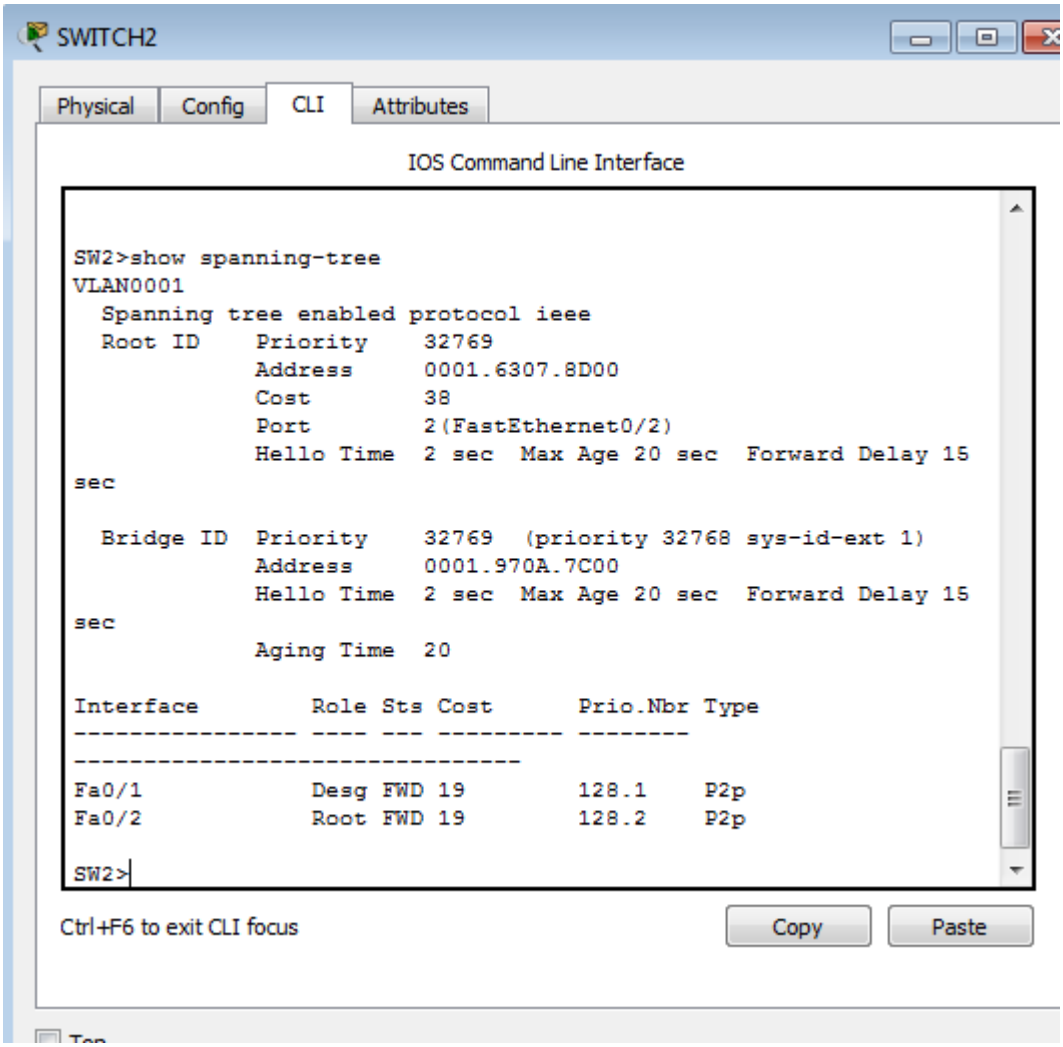


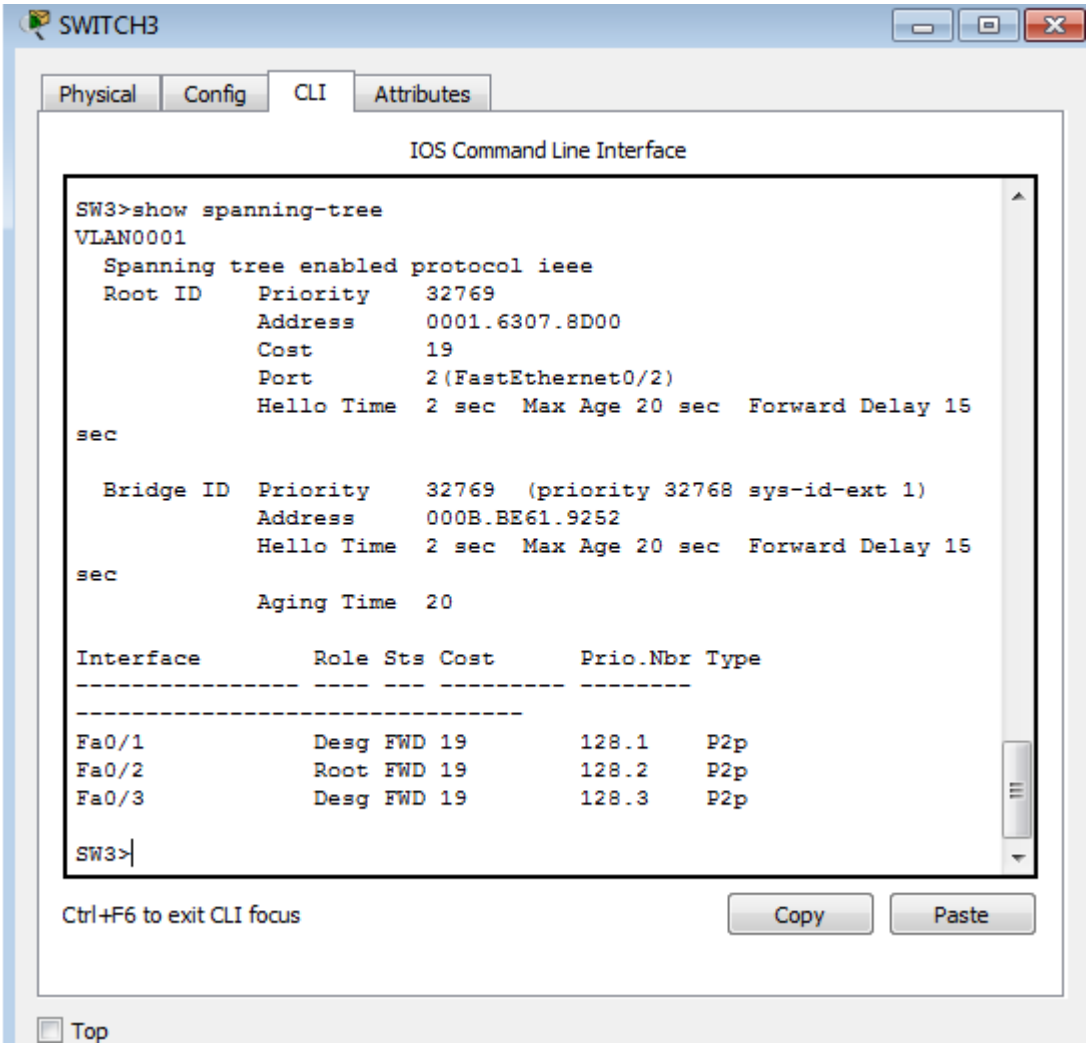
Kegiatan 2


Cisco Packet Tracer - C:\Users\LABRPL-6\Documents\Modul6\lab2.pkt
File Edit Options View Tools Extensions Help
Logical
Back
[Root]
New Cluster
Move Object
Set Tiled Background
Viewport
Environment: 15:21:30
Leo
PC-PT
PC4
2950-24
SWITCH1
Aries
PC-PT
PC3
2950-24
SWITCH2
2950-24
SWITCH3
PC-PT
PC5
Virgo
Time: 01:19:43
Power Cycle Devices
Fast Forward Time
Realtime
Automatically Choose Connection Type

1.Melihat status STP pada masing masing switch




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



2.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

3.Menentukan :

a. Root Bridge
   - (**SWITCH1**)

b. Designated Bridge
   - (**SWITCH3**)

c. Root Port:
   - **SWITCH2** (**Fa 0/2**)
   - **SWITCH3** (**Fa 0/2**)

d. Designated Port
   - **SWITCH1** (**Fa 0/1, Fa 0/2**)
   - **SWITCH2** (**Fa 0/1**)
   - **SWITCH3** (**Fa 0/1, Fa 0/3**)

e. 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**)

f. Port Blocking
   - **NONE**

4.Ping PC Leo ke PC Virgo