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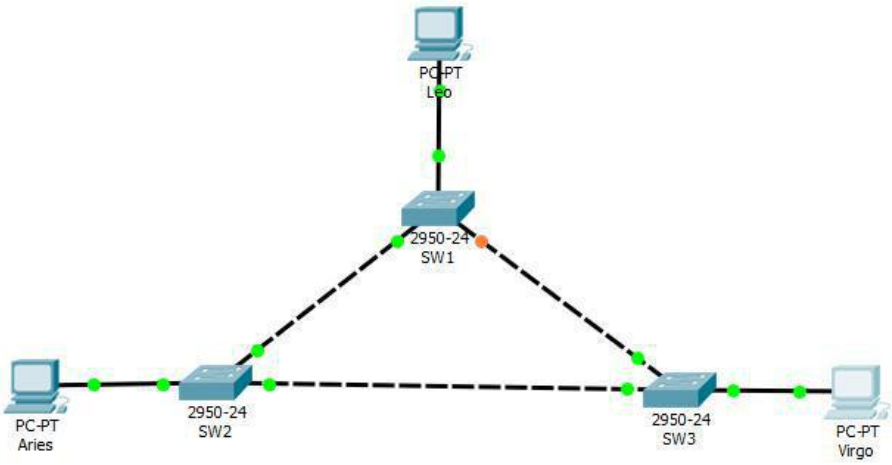
NIM : L200180207
Kelas : E

Modul 6 : Spanning Tree Protocol

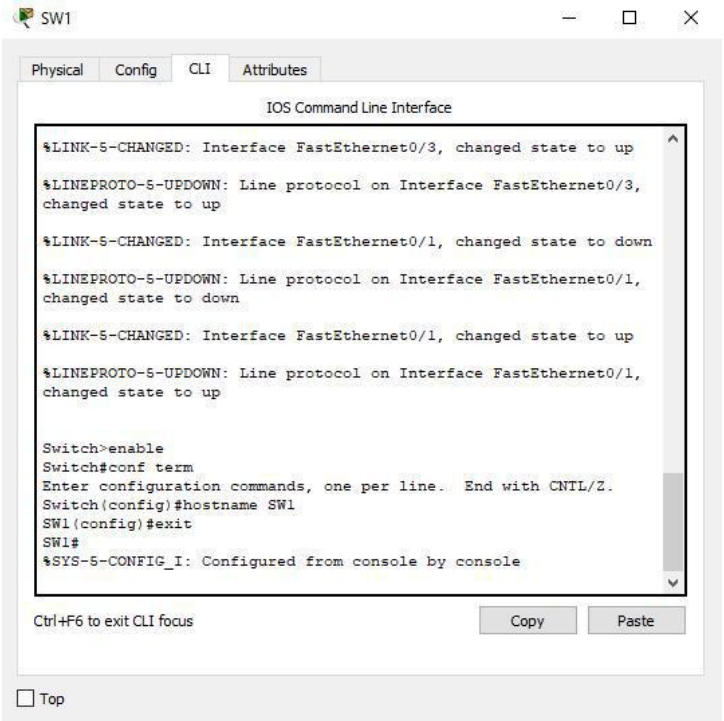
1. **Kegiatan 1. topologi 1**
   a. Membuat topologi jringan



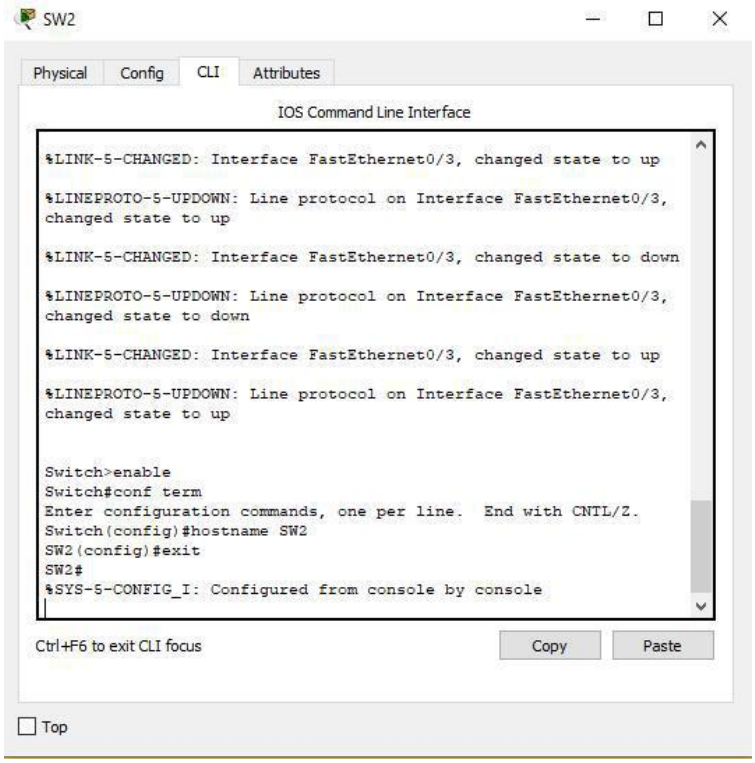
Tugas 1A :

b. Beri nama masing - masing switch dengan SW1, SW2, dan SW3

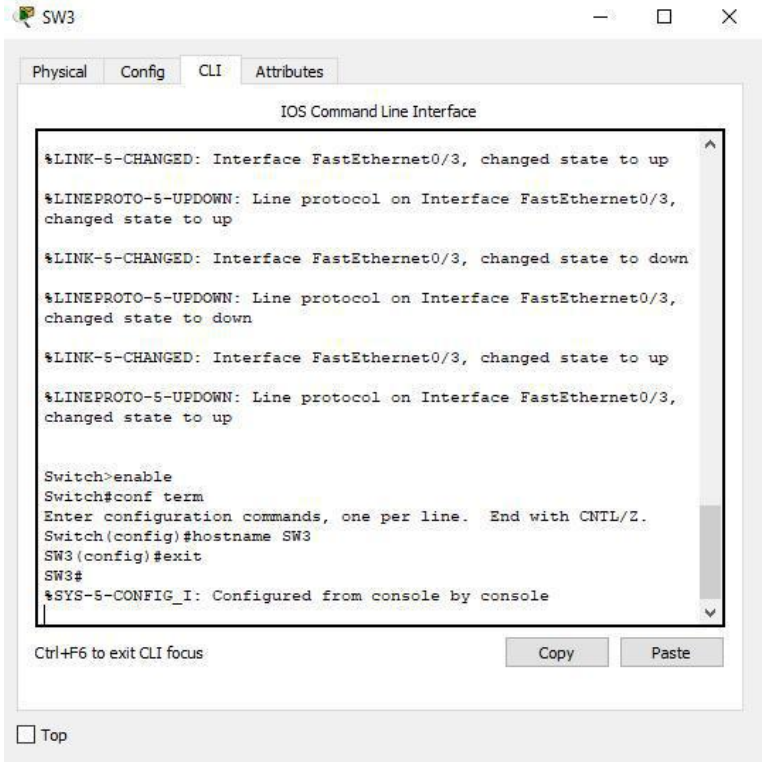
- SW1



- SW2


SW2
Physical
Config
CLI
Attributes
IOS Command Line Interface
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW2
SW2(config)#exit
SW2#
%SYS-5-CONFIG_I: Configured from console by console
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

- SW3


SW3
Physical
Config
CLI
Attributes
IOS Command Line Interface
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname SW3
SW3(config)#exit
SW3#
%SYS-5-CONFIG_I: Configured from console by console
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

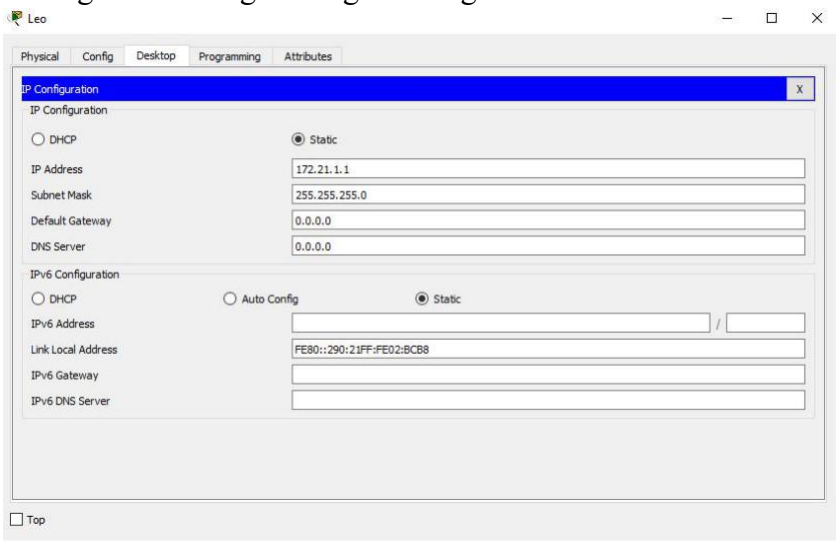
Tugas 2A : tulis langkah pemberian nama switch

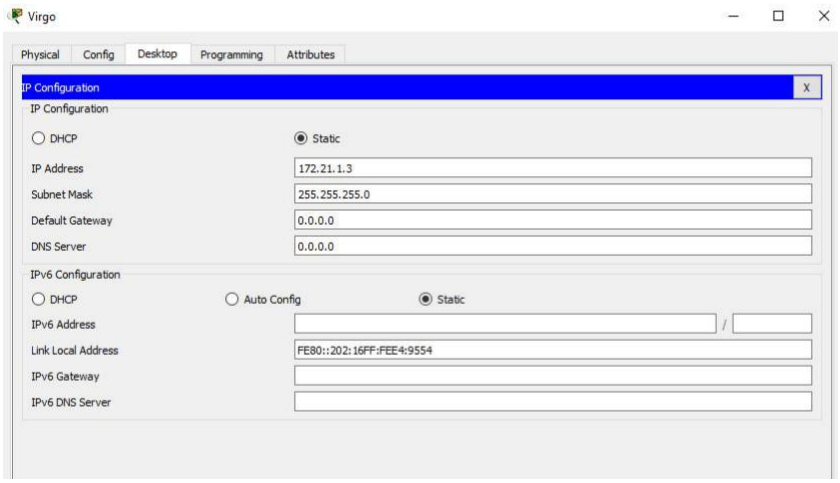
- Switch1

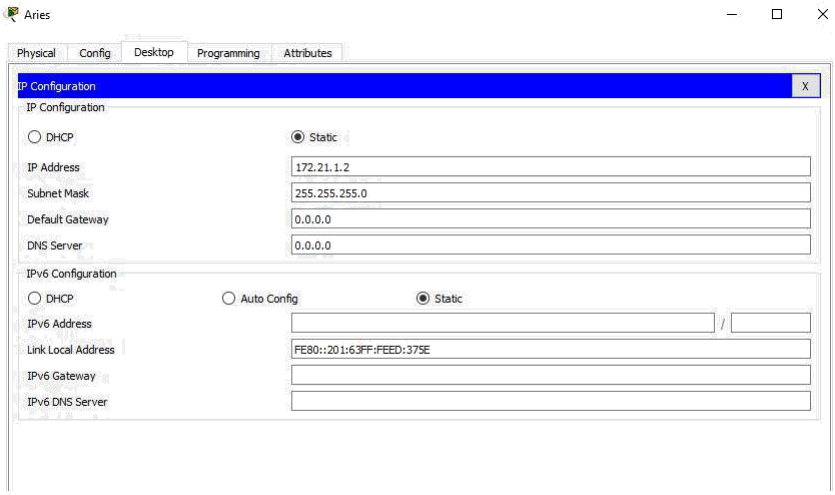
Switch>enable Switch#conf
term
Switch(config)#hostname
SW1 SW1(config)#

Switch yang laiinnya juga begitu

c. Konfigurasi masing-masing PC dengan alamat IP



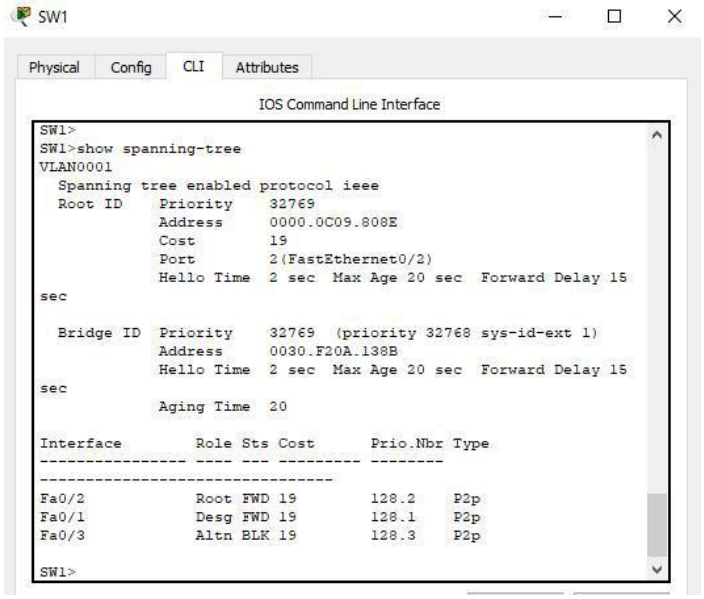




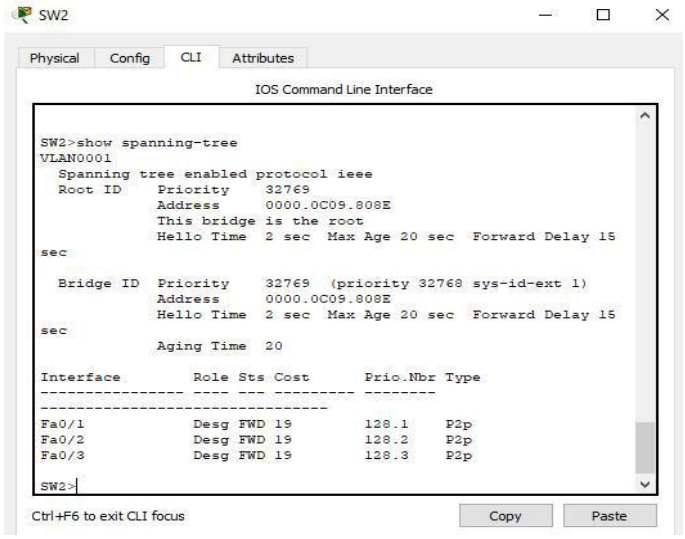
d. Spanning Tree pada Switch

Tugas 4A : Capture masing-masing tampilan switch

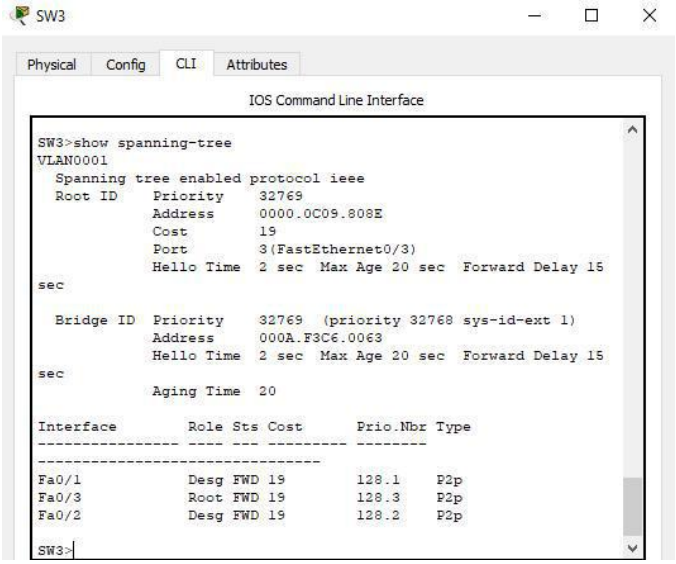
- SW1



- SW2



- SW3



Tugas 4B : Isikan tabel

- SW1

No	Variable	Nilai
1	Root Id	32769
2	Priority	32769
3	MAC Address	0030.F20A.138B
4	Bridge Id	32769
5	Cost(0/1;0/2;0/3)	19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

- SW2

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0000.0C09.808E
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

- SW3

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	000A.FC36.0063
4	Bridge ID	32769
5	Cost (0/1;0/2;0/3)	19
6	Hello Time	2 Sec

7	MaxAge	20 Sec
8	Forward Delay	15 Sec

Tugas 4C :

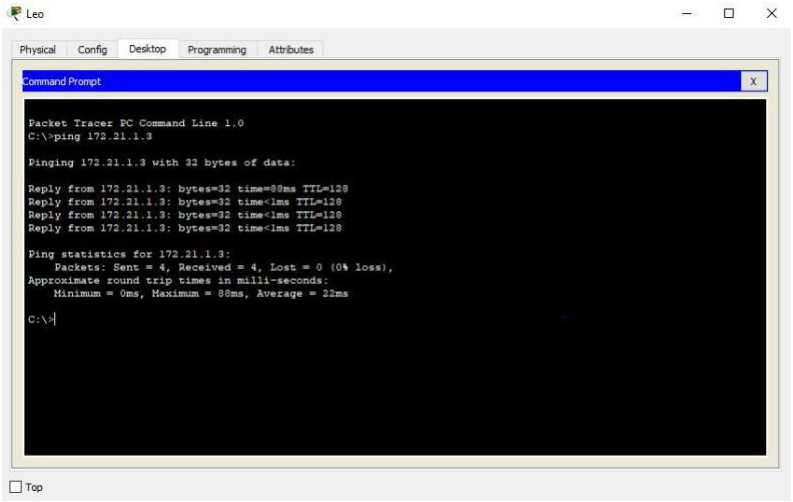
- Root bridge : SW2
- Designated bridge : SW3
- Root port : SW1(fa 0/2) dan SW2(fa 0/3)
- Designated port :
  SW1(fa 0/1), SW2(fa 0/1; fa 0/2; fa 0/3) dan SW3(fa 0/1; fa 0/2)

Tugas 4D : Menentukan port yang berada pada keadaan forwarding dan blocking - Forwarding

SW1(fa 0/1; fa 0/2)
SW2(fa 0/1; fa 0/2; fa 0/3)
SW3(fa 0/1; fa 0/2; fa 0/3)

- Blocking
  SW1(fa 0/3)

e. Ping PC Leo ke PC Virgo



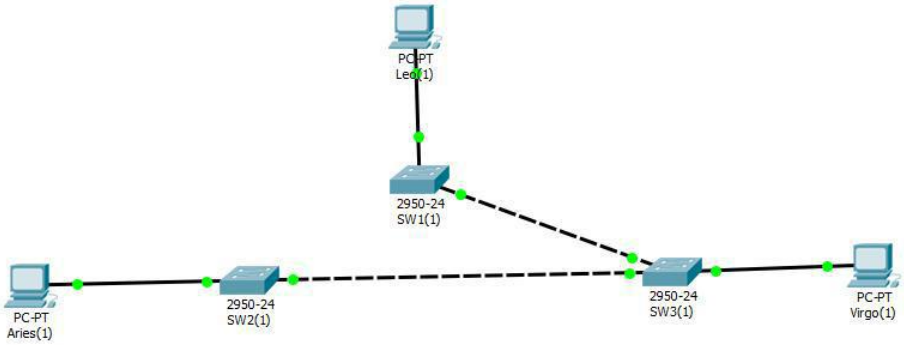
Tugas 5A : Tulis langkah untuk melakukan perintah ping
Klik pada PC Leo, pilih tab desktop, setelah itu pilih command prompt, lalu ketikan ‘ping 172.21.1.3’ di command prompt

f. Simpan konfigurasi jaringan

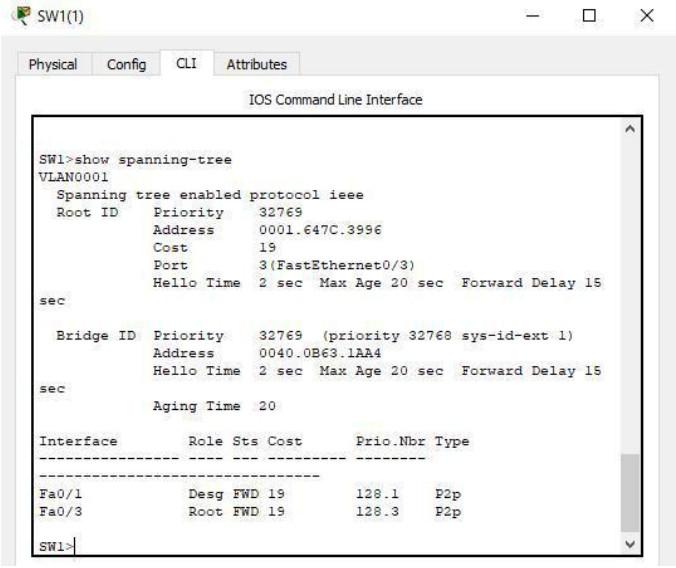
Tugas 6A : Tulis langkah untuk menyimpan.
Pilih menu File, lalu pilih Save, simpan dengan nama ‘lab2.nwc’

Kegiatan 2. Topologi 2

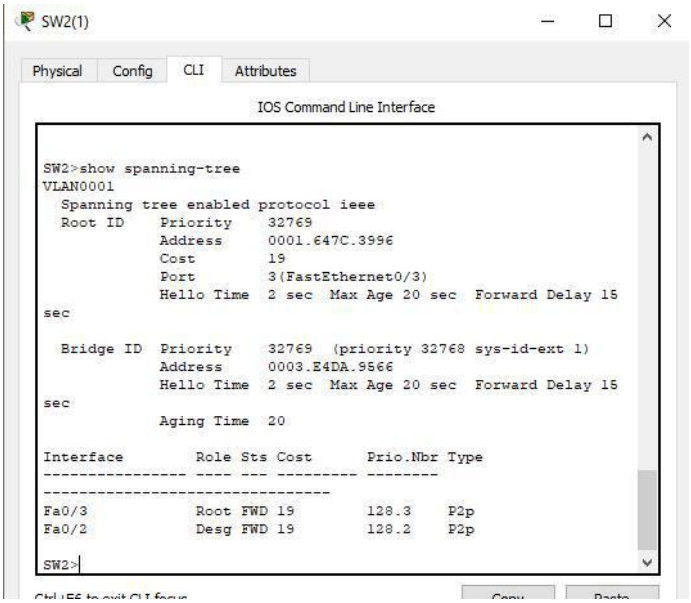
a. Membuat topologi jaringan



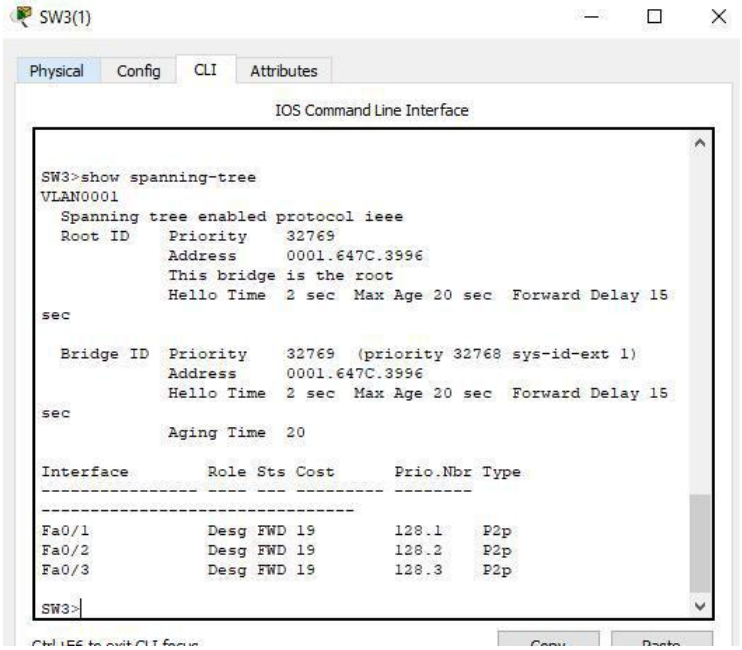
b. Lakukan langkah 4 dan 5 - SW1



- SW2



- SW3



- SW1

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0040.0B63.IA44
4	Bridge ID	32769
5	Cost (0/1;0/3)	19; 19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

- SW2

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0003.E4DA.9566
4	Bridge ID	32769
5	Cost (0/3;0/2)	19; 19
6	Hello Time	2 Sec
7	MaxAge	20 Sec
8	Forward Delay	15 Sec

- SW3

No	Variable	Nilai
1	Root ID	32769
2	Priority	32769
3	MAC Address	0001.647C.3996
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 Sec

- Root bridge : SW3
- Designated bridge : SW1 dan SW2
- Root port : SW1(fa 0/3) dan SW2(fa 0/3)
- Designated port : SW1(fa 0/1), SW2(fa 0/2), dan SW3(fa 0/1; fa 0/2; fa 0/3)

- Forwarding
  SW1(fa 0/1; fa 0/3)
  SW2(fa 0/2; fa 0/3)
  SW3(fa 0/1; fa 0/2; fa 0/3)
- Blocking
  Tidak ada yang terblok

Tugas 5A :
Klik pada PC Leo, pilih tab desktop, setelah itu pilih command prompt, lalu ketikan ‘ping 172.21.1.3’ di command prompt

- Ping dari PC Leo ke PC Virgo