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NIM : L200180010

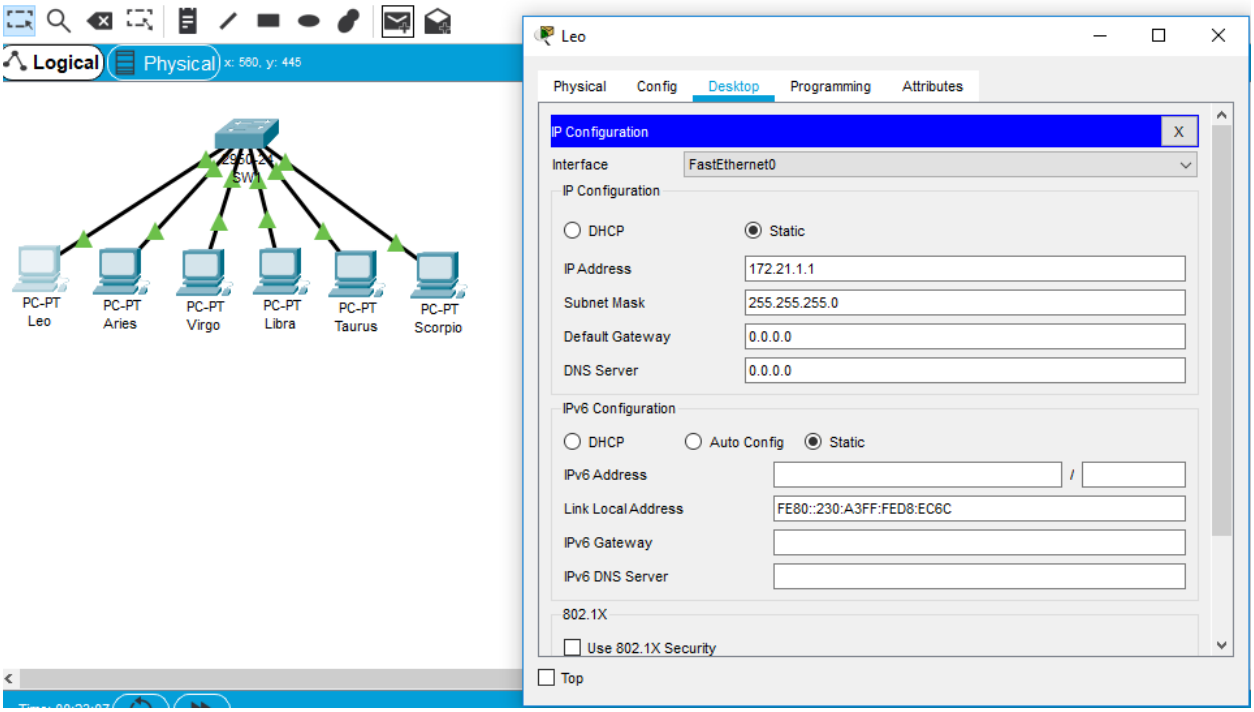
Kelas : A

Matkul : Praktikum Jaringan komputer

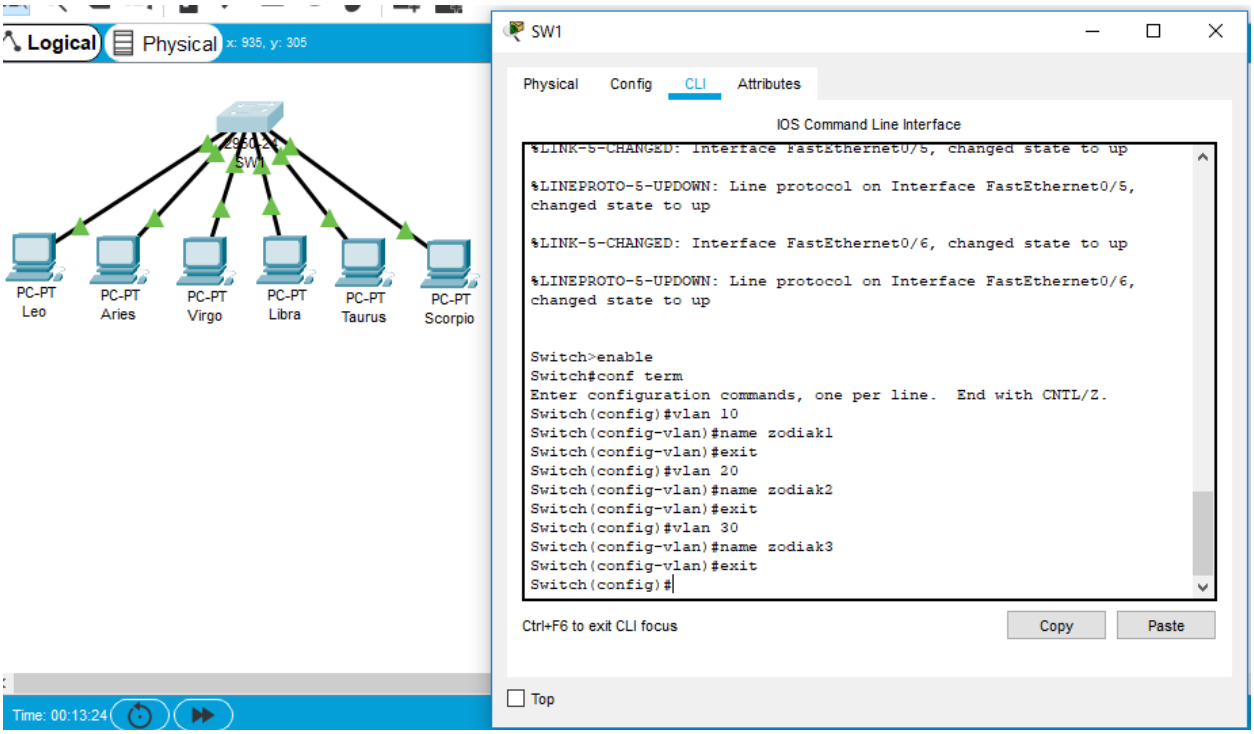
MODUL 4

VIRTUAL LAN DAN TRUNKING

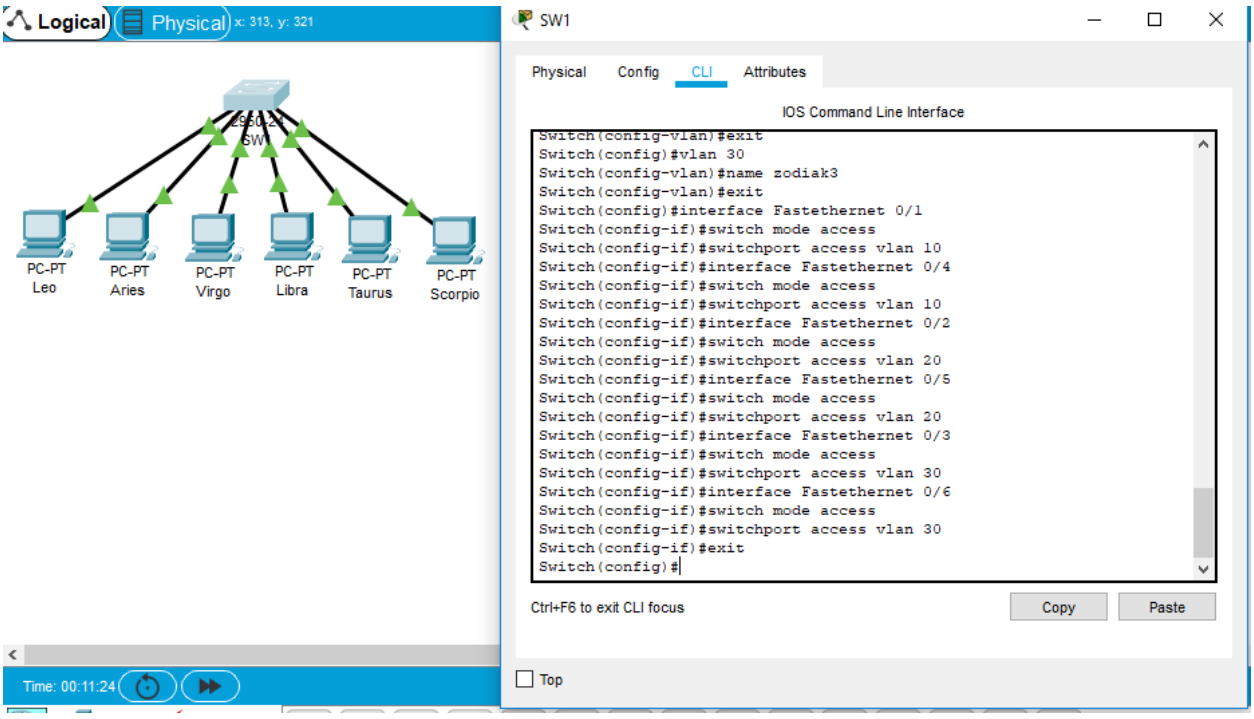
1. Praktikum 1 Topologi 1
   a. Memberi nama masing-masing perangkat
   b. mengkonfigurasikan nama dan alamat IP



   c. konfigurasi pada switch dengan mode user

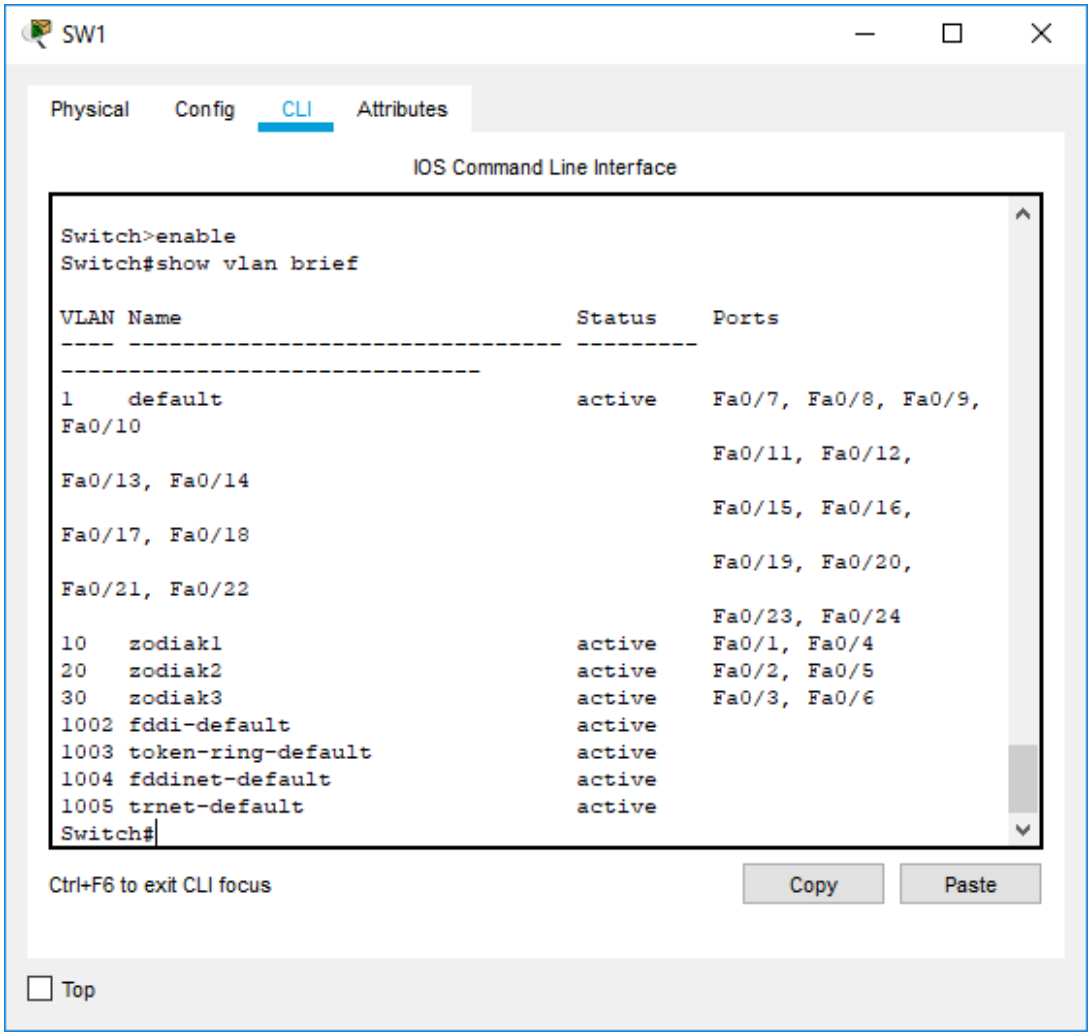


d. Pada mode configuration ,konfigurasi port-port switch kedalam VLAN zodiak1,zodiak2 ,dan zodiak3 dengan anggota sebagai sbb:
   Zodiak 1 = leo dan libra
   Zodiak 2 = aries dan Taurus
   Zodiac 3 = virgo dan scorpio

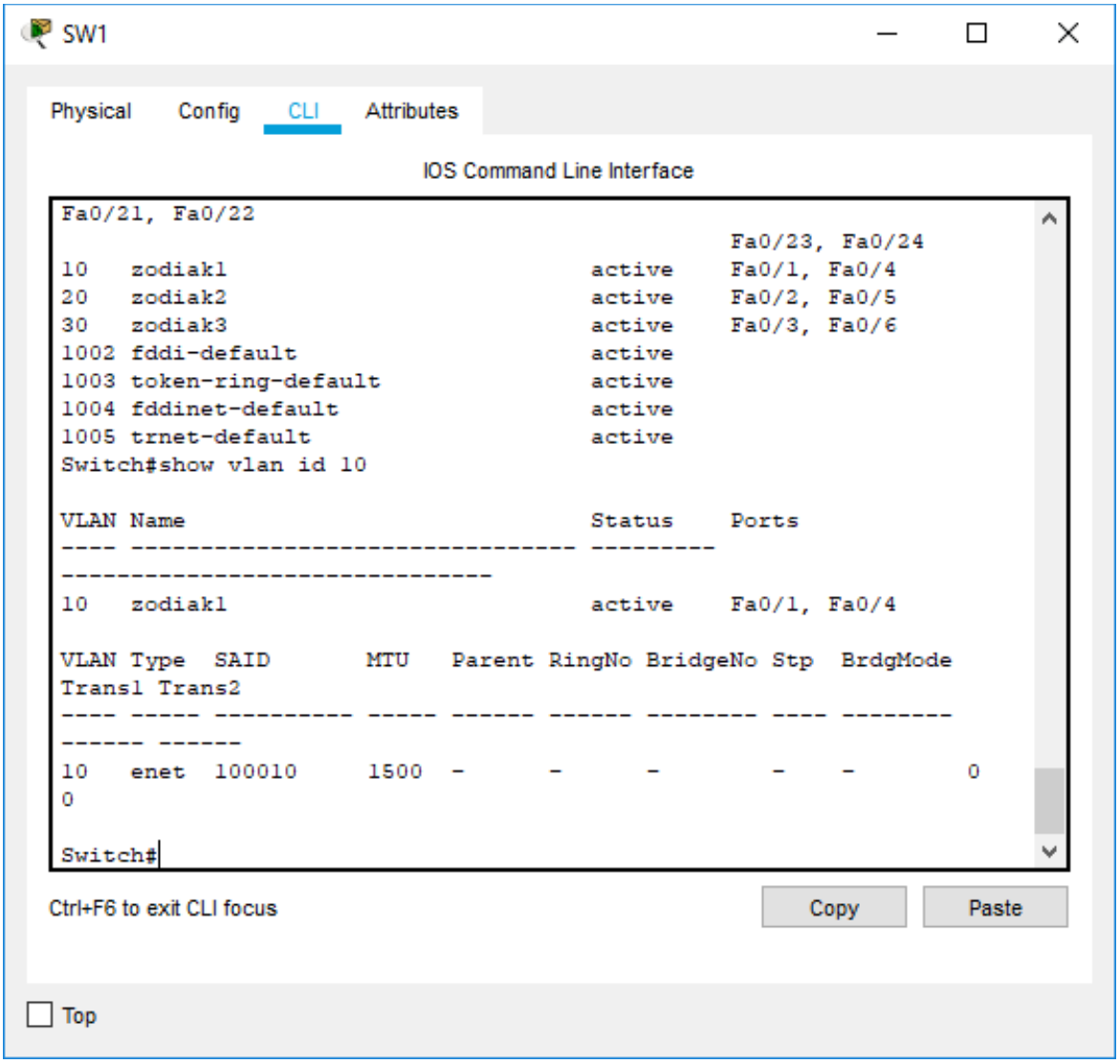


e. Konfigurasi pada LAN yang telah dibuat

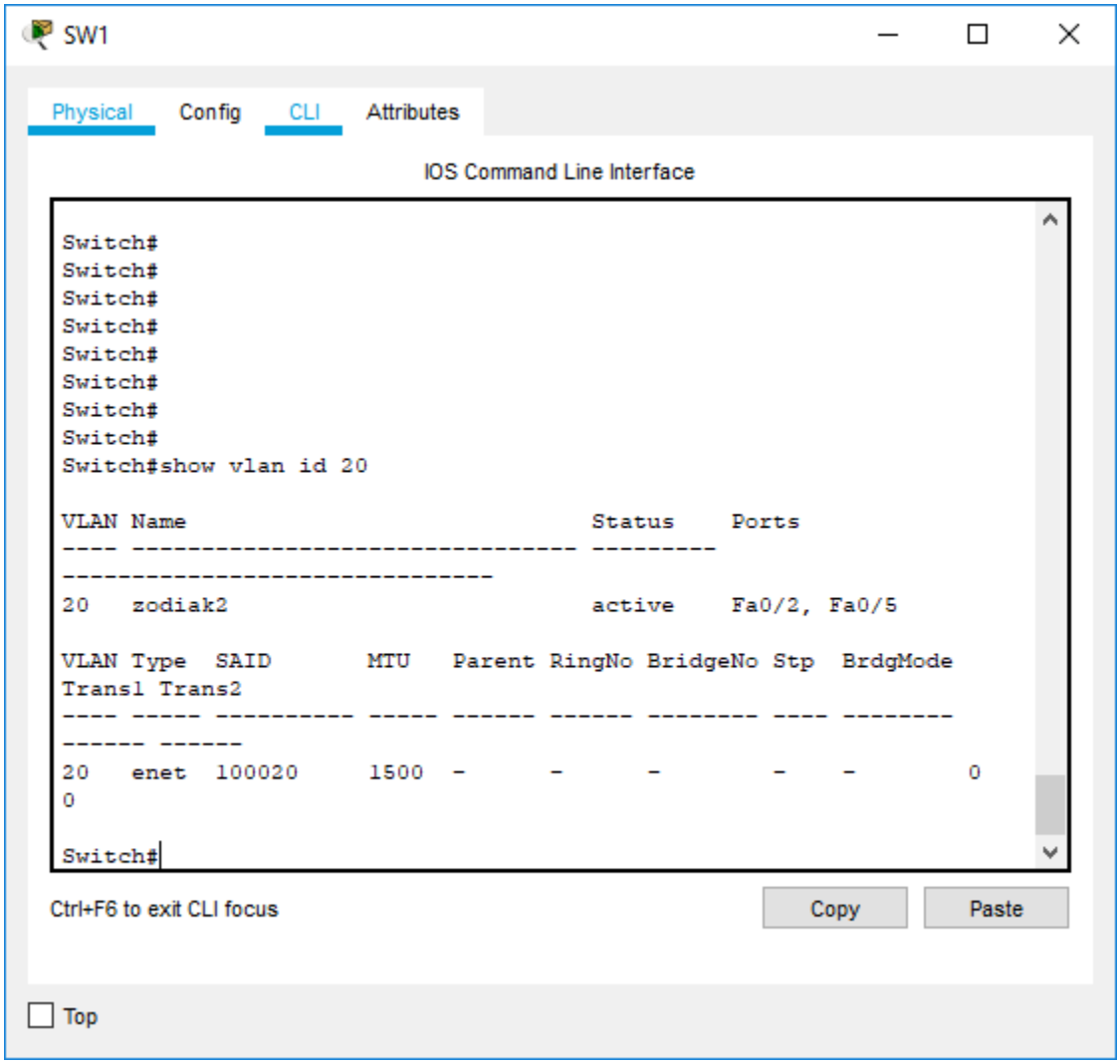
- Show vlan brief



- Show vlan id 10

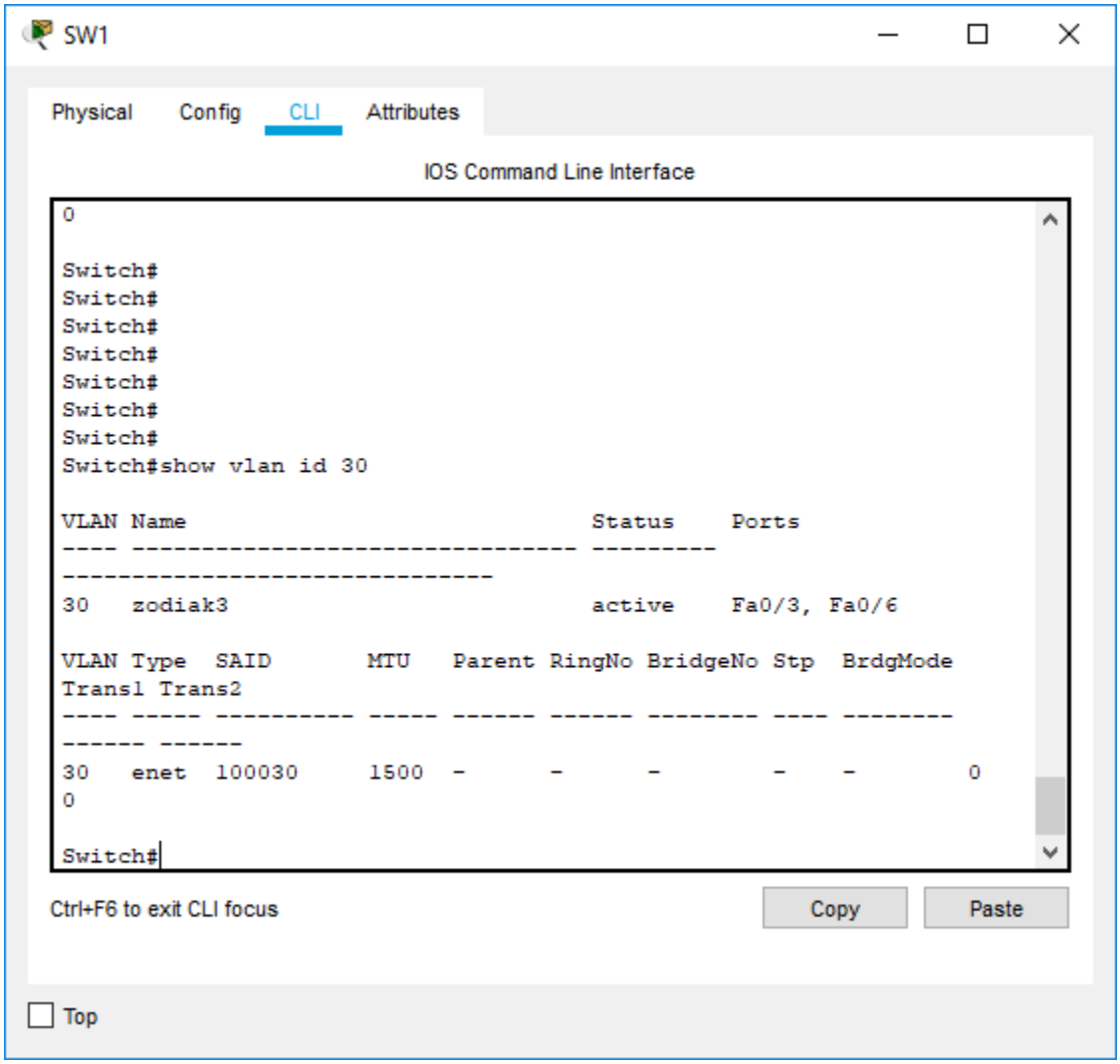


f. Show vlan id 20



g. S

h. how vlan id 30



TUGAS 6A

No	Variable	Nilai		
1	Nomor vlan	10	20	30
2	Nama vlan	Zodiak1	Zodiak2	Zodiak3
3	Port	Fa 0/1, fa 0/4	Fa 0/2, fa 0/5	Fa 0/3, fa 0/6
4	status	Active	Active	Active

TUGAS 6B

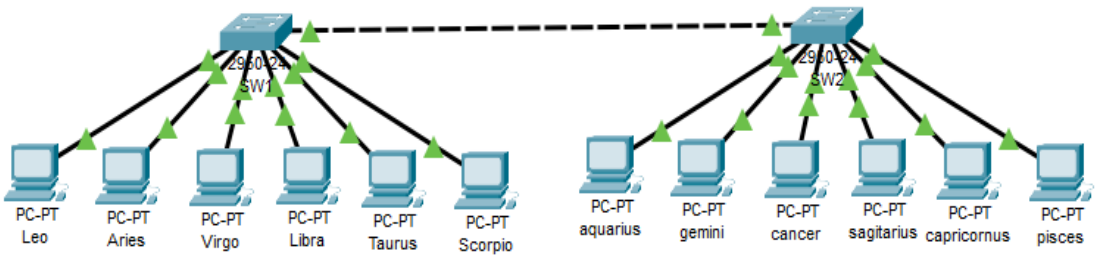
Penjelasan :

Nomor VLAN 10 dengan nama VLAN zodiak1 memiliki port fa 0/1 dan fa 0/4 status VLAN nya active.

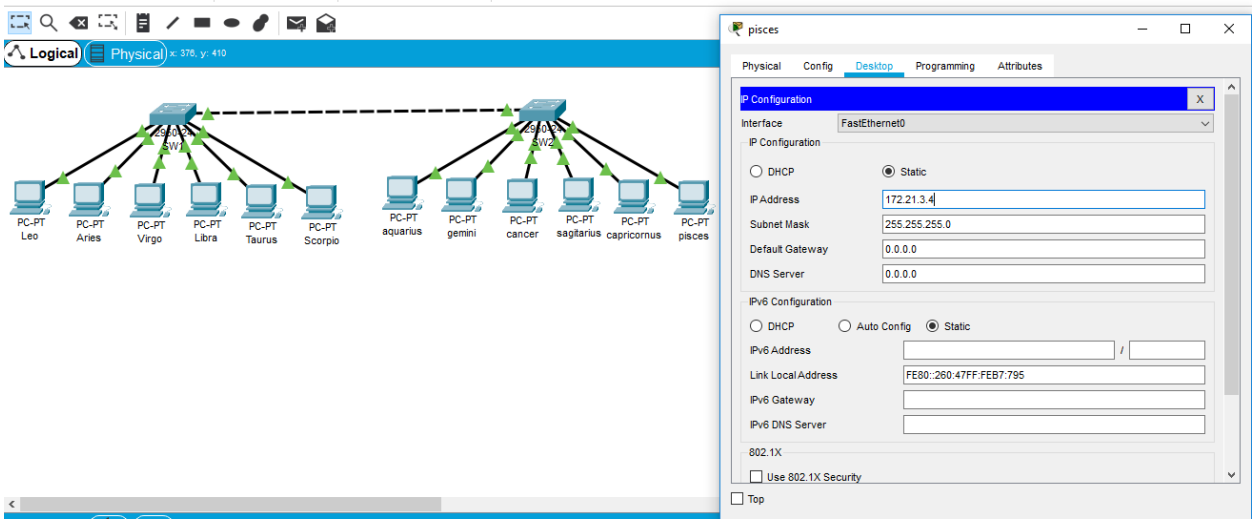
Nomor VLAN 20 dengan nama VLAN zodiak2 memiliki port fa 0/2 dan fa 0/5 status VLAN nya active.

Nomor VLAN 30 dengan nama VLAN zodiak3 memiliki port fa 0/3 dan fa 0/6 status VLAN nya active.

2. KEGIATAN 2 TOPOLOGI 2
   a. Memberi nama masing-masing perangkat

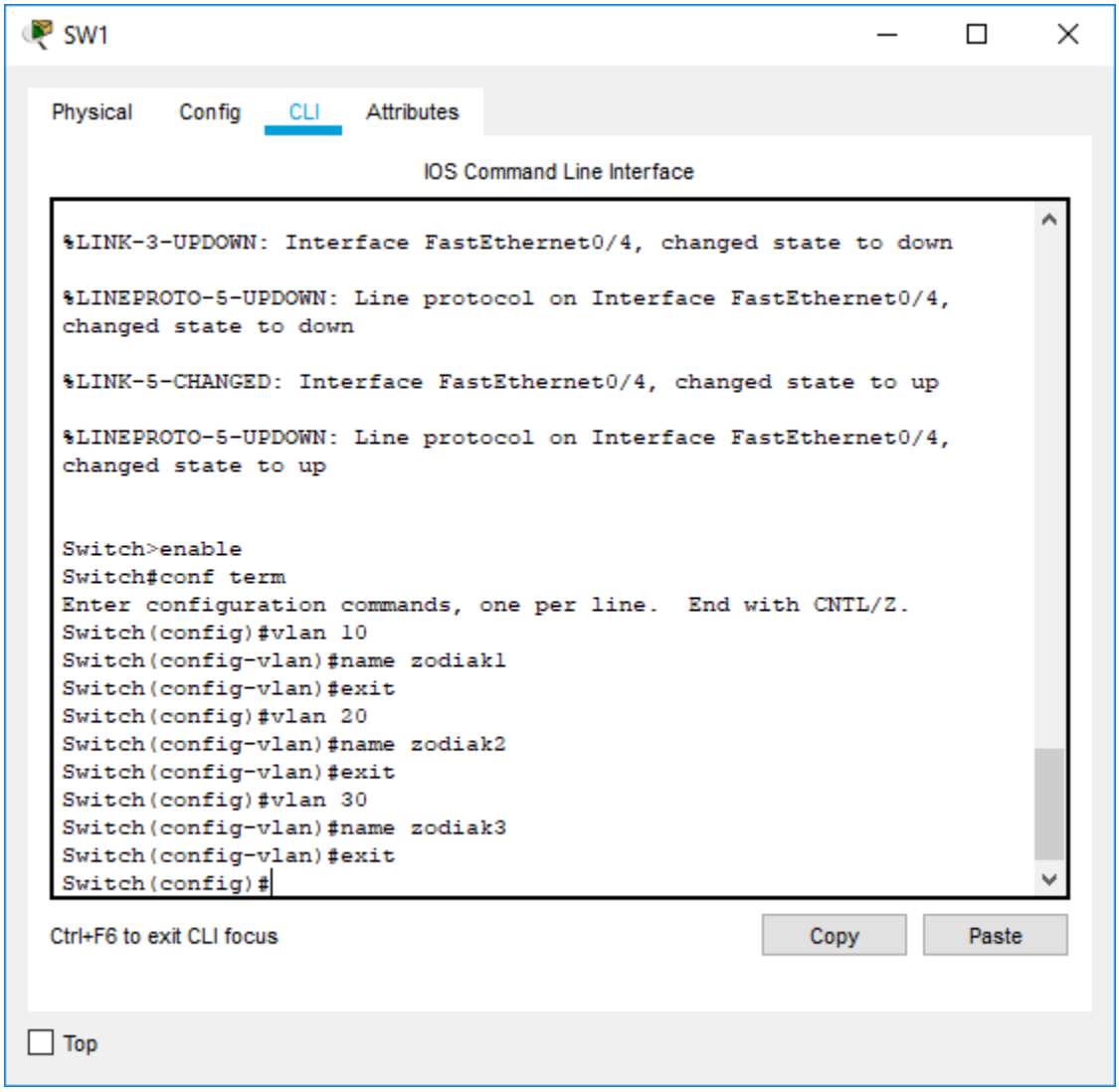


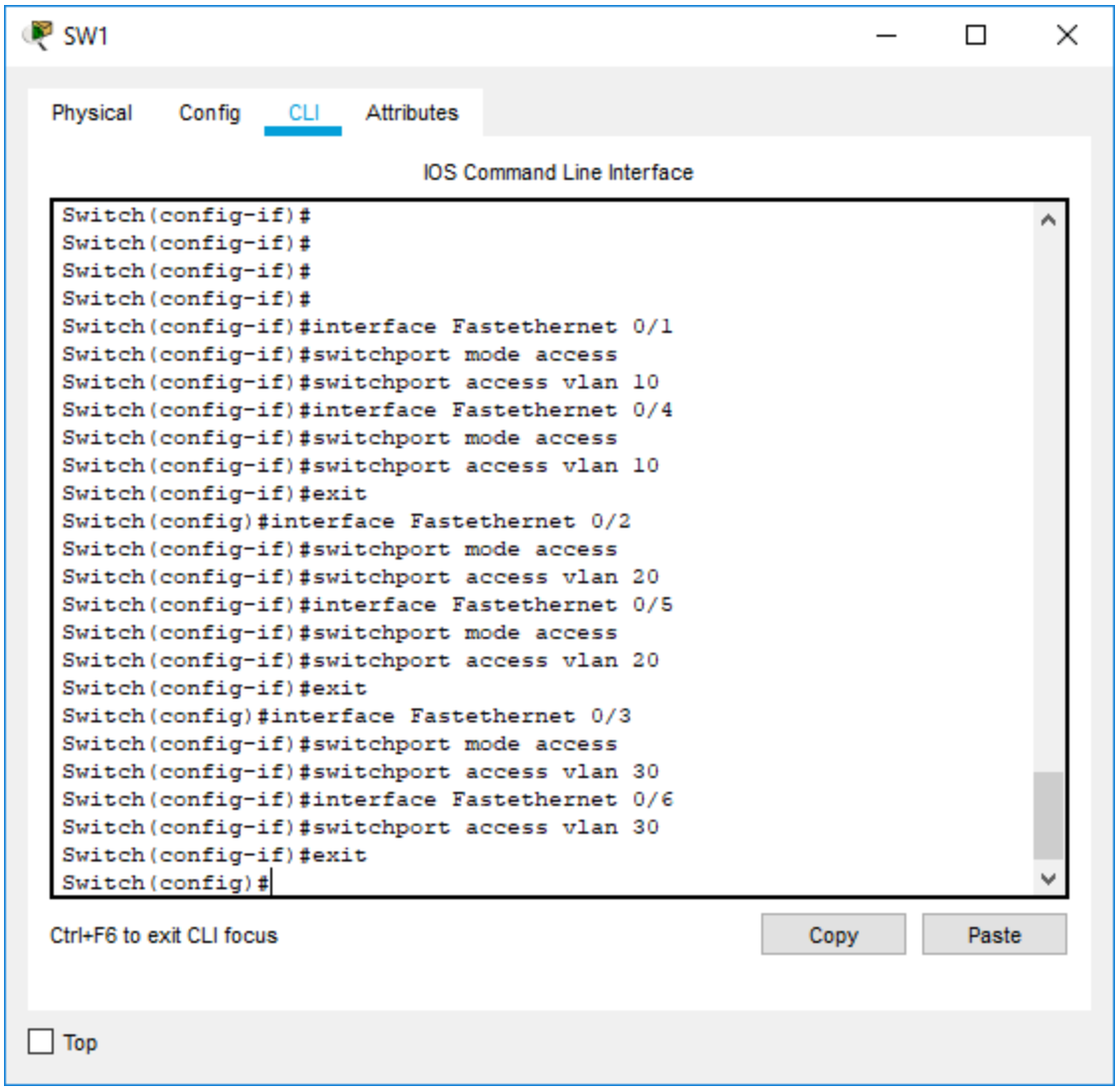
   b. Konfigurasi masing-masing PC dengan nama dan alamat IP



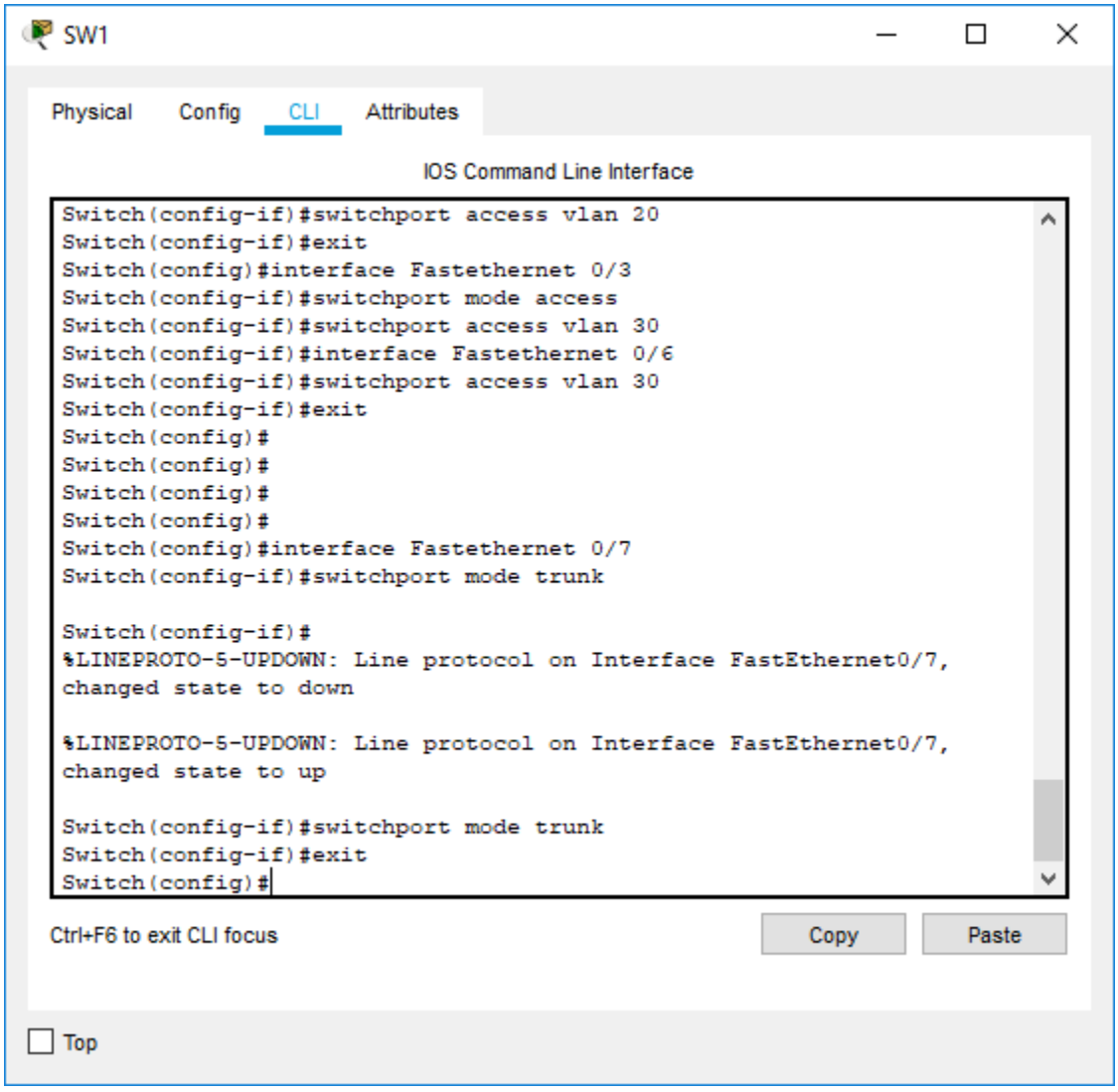
   c. konf

d. igurasi pada switch 1 dengan mode user

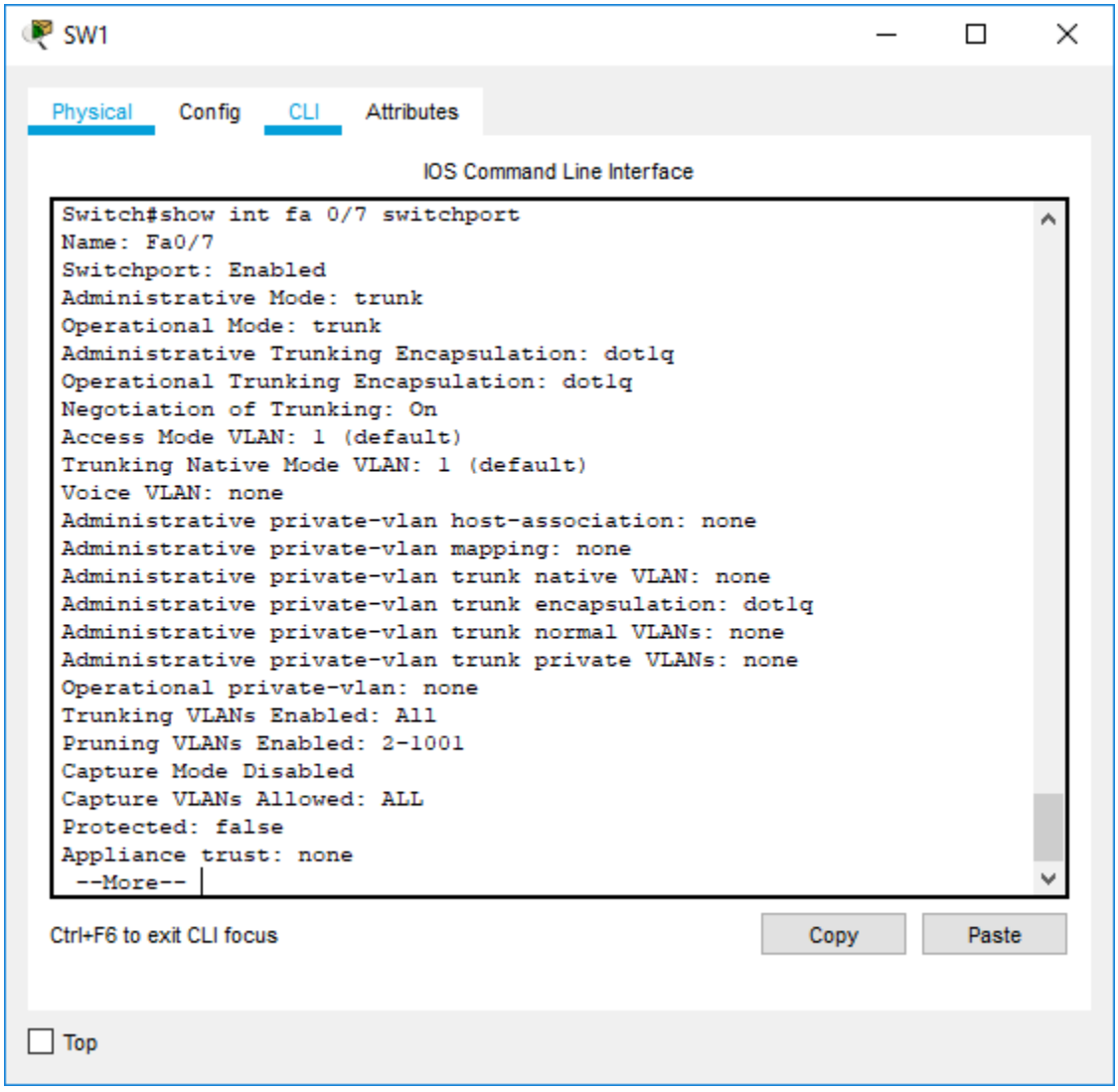



SW1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#interface Fastethernet 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#interface Fastethernet 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface Fastethernet 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#interface Fastethernet 0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#interface Fastethernet 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#interface Fastethernet 0/6
Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
Switch(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

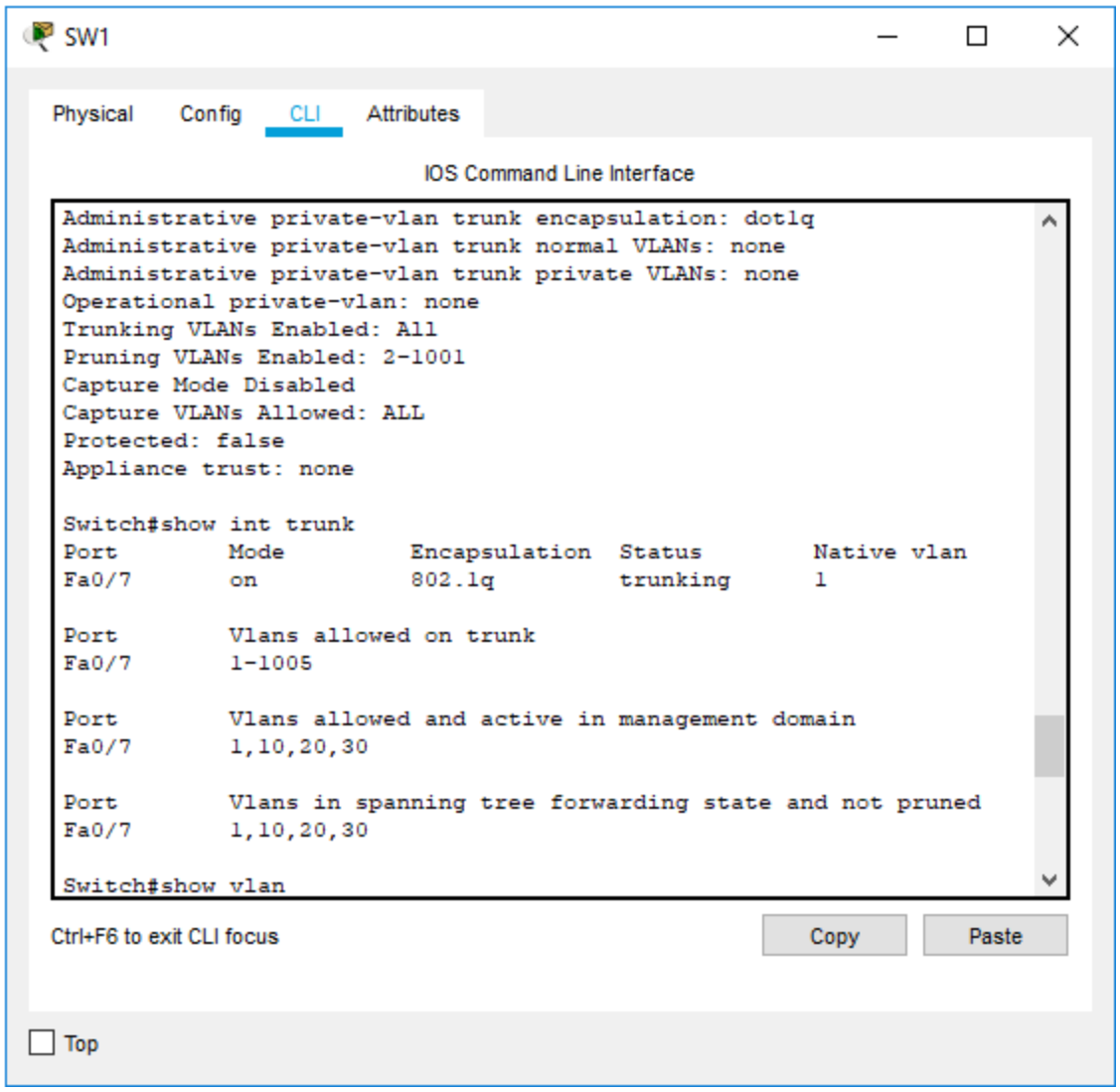
e. Melakukan konfigurasi trunk pada port 0/7



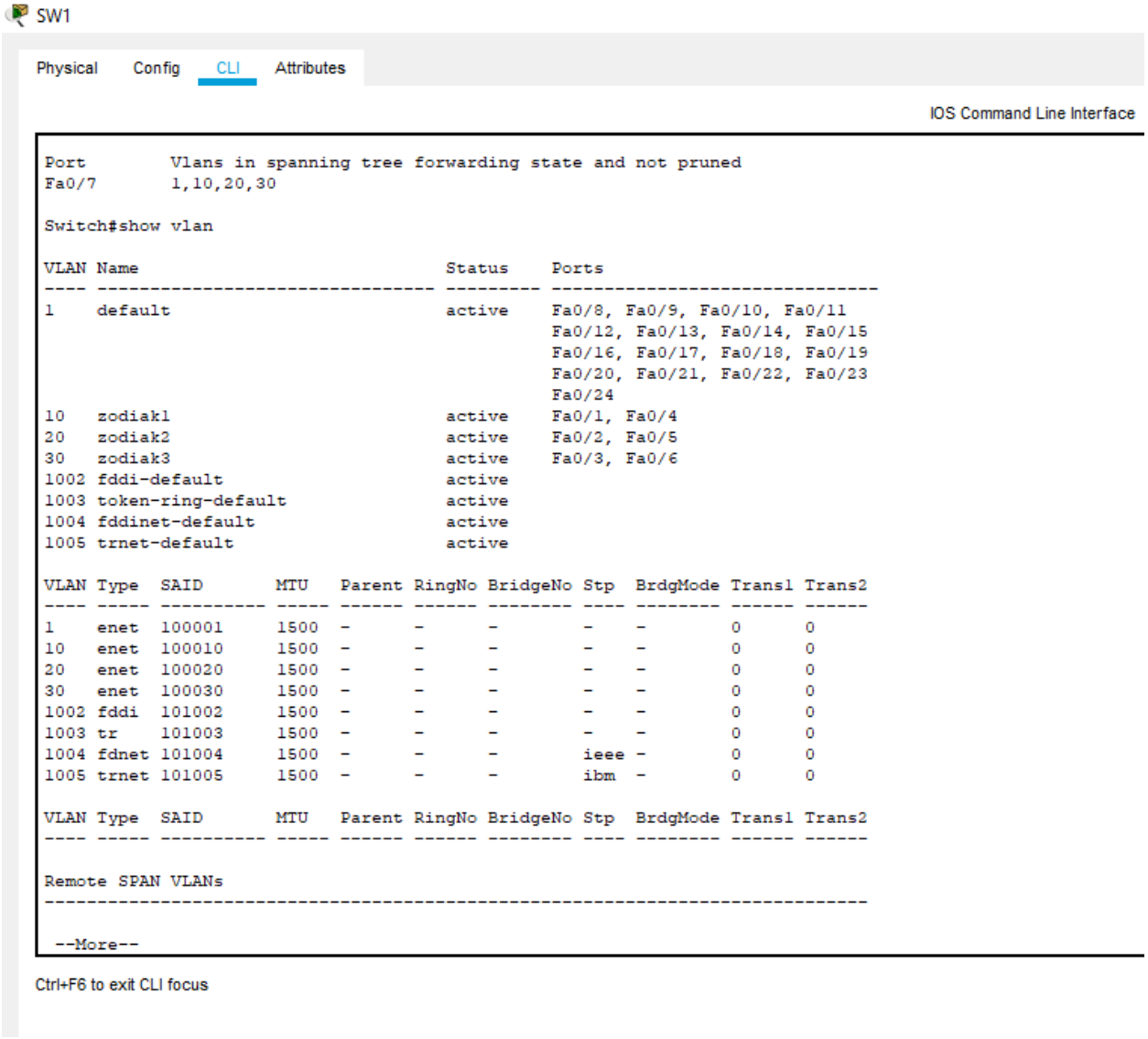
f. Hasil


SW1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch#show int fa 0/7 switchport
Name: Fa0/7
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
Trunking Native Mode VLAN: 1 (default)
Voice VLAN: none
Administrative private-vlan host-association: none
Administrative private-vlan mapping: none
Administrative private-vlan trunk native VLAN: none
Administrative private-vlan trunk encapsulation: dot1q
Administrative private-vlan trunk normal VLANs: none
Administrative private-vlan trunk private VLANs: none
Operational private-vlan: none
Trunking VLANs Enabled: All
Pruning VLANs Enabled: 2-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none
--More--
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

i. Show int trunk



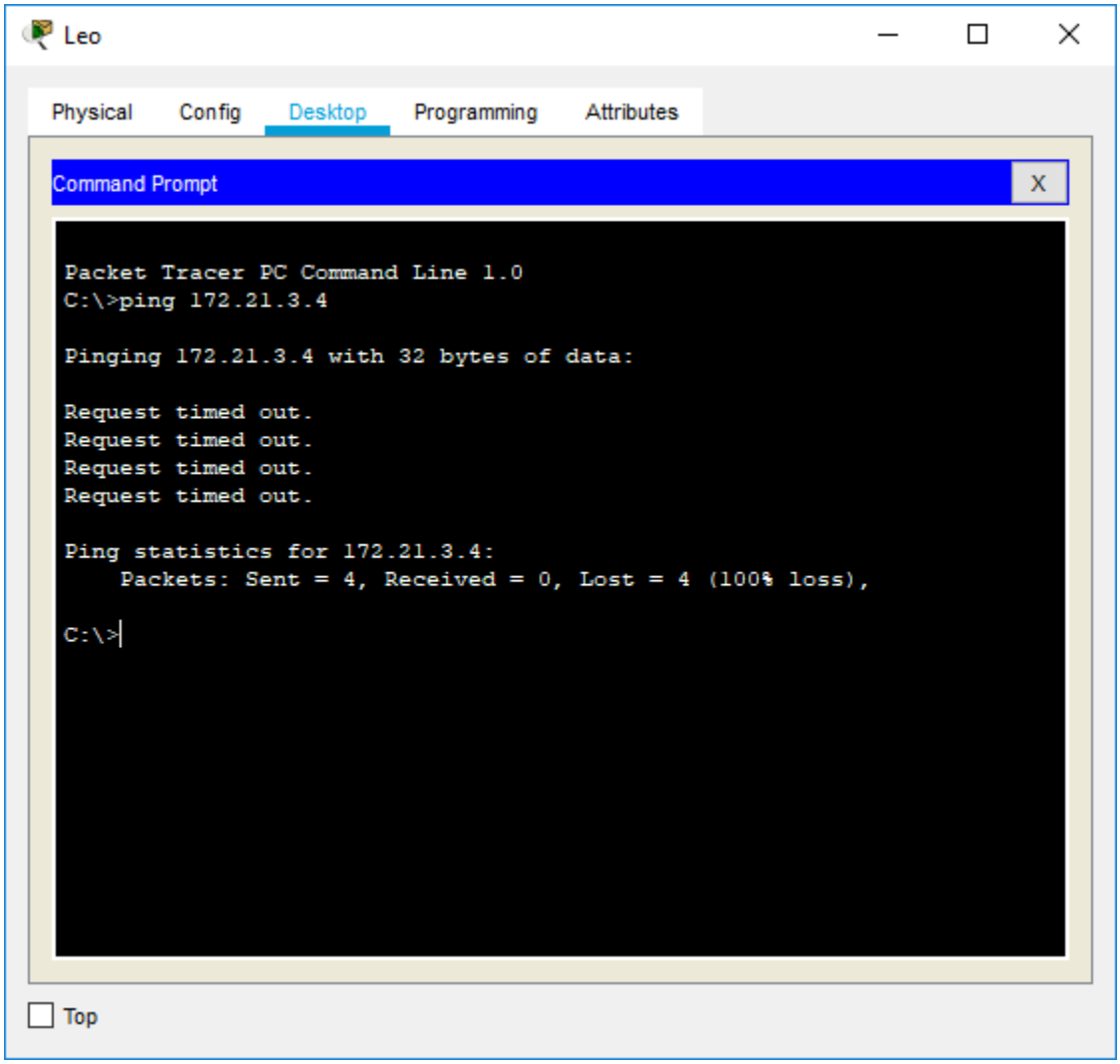
j. Show vlan



TUGAS 7A:

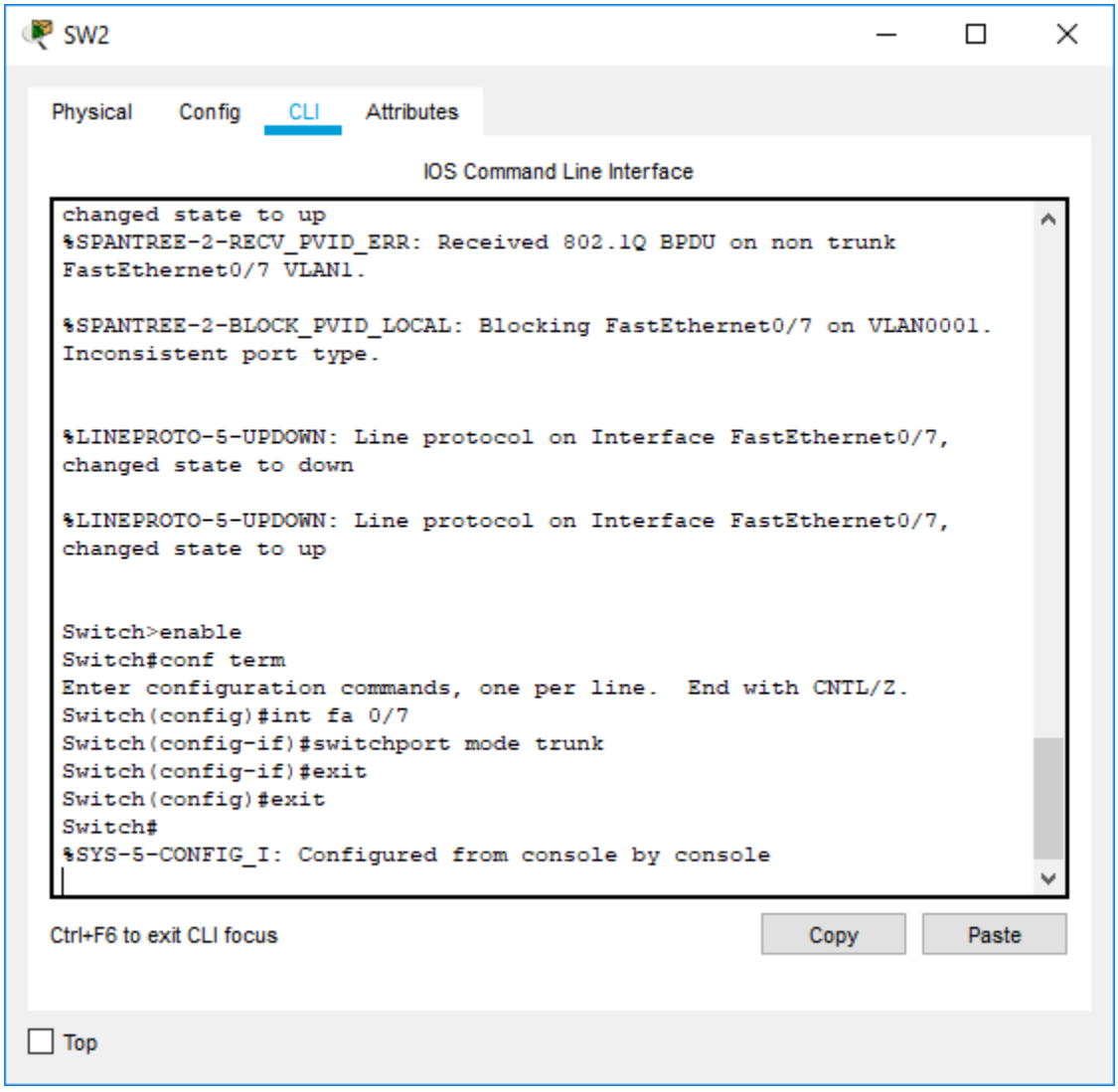
Untuk port 0/7 pada switch 0 telah disetting untuk trunk dan berhasil sehingga port 0/7 tidak tersedia untuk vlan.

g. Lakukan ping dari pc leo ke pc pisces



Tugas 8A:
Hasilnya adalah RTO karena berada pada jaringan yang berbeda dan pada switch 1 belum disetting trunk.

h. Melakukan konfigurasi trunk pada switch 2



SW2

Physical Config CLI Attributes

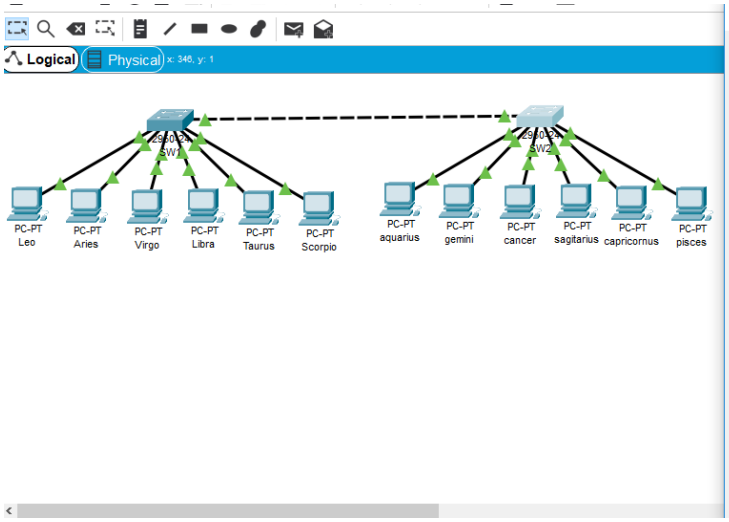
IOS Command Line Interface

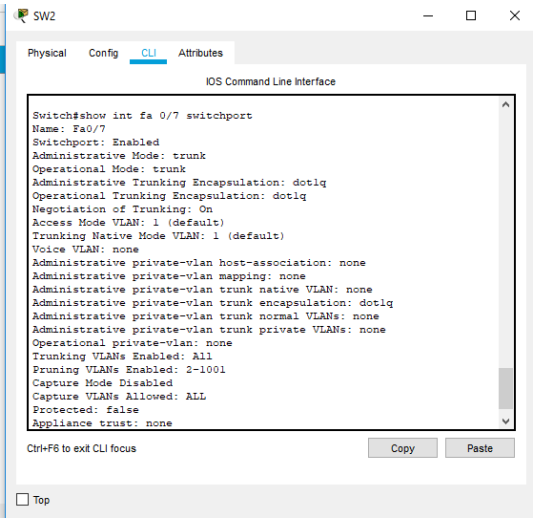
```
Switch#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#int fa 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switch access vlan 10
Switch(config-if)#int fa 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switch access vlan 10
Switch(config-if)#exit
Switch(config)#int fa 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switch access vlan 20
Switch(config-if)#int fa 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switch access vlan 20
Switch(config-if)#exit
Switch(config)#int fa 0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switch access vlan 30
Switch(config-if)#int fa 0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switch access vlan 30
Switch(config-if)#exit
Switch(config)#
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

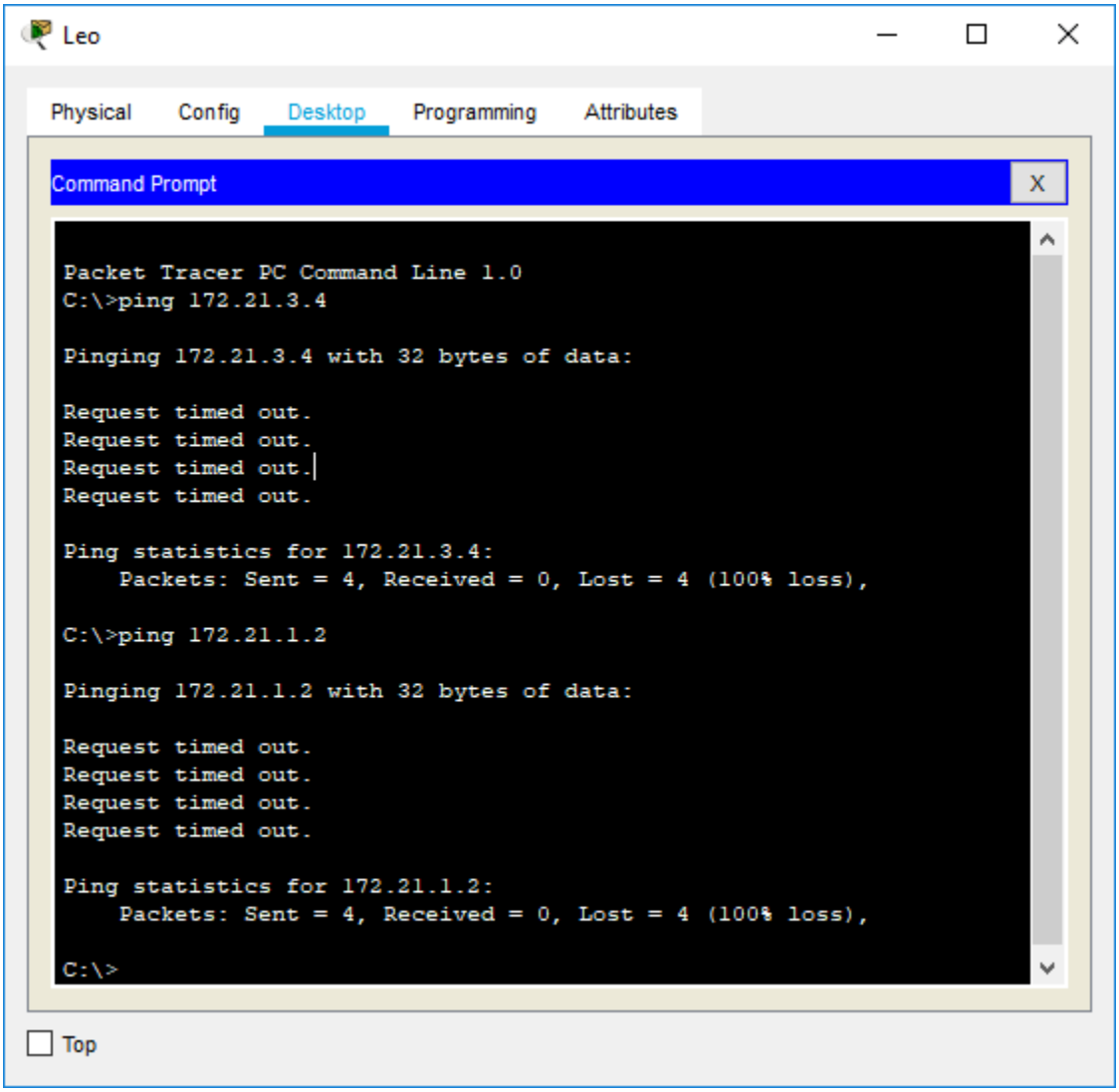




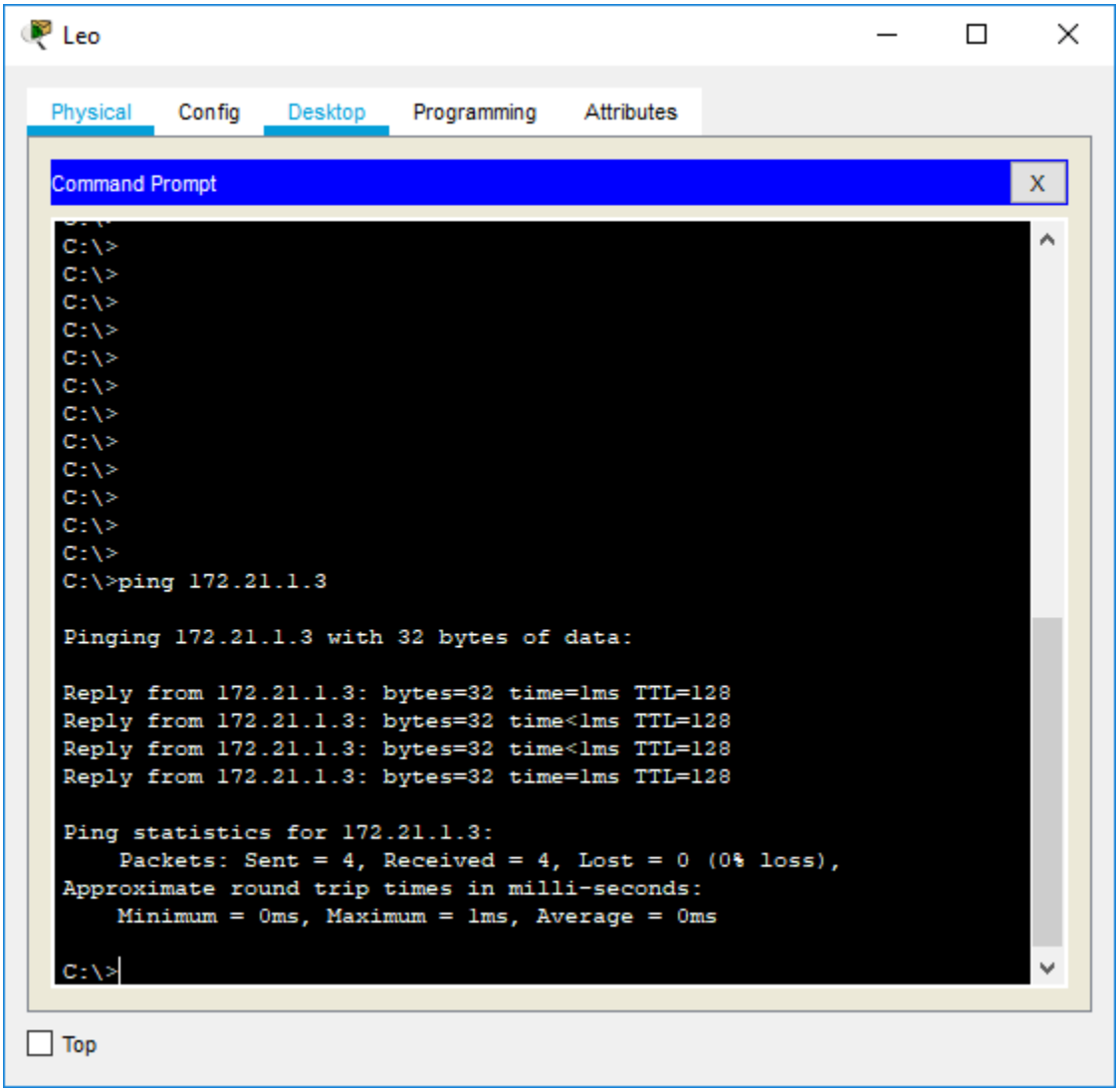
TUGAS 10A

Jelaskan secara singkat hasil yang anda peroleh dari langkah 10.
Jawab:
Hasil yang diperoleh berupa informasi mengenai konfigurasi VLAN Trunking pada Switch 2.

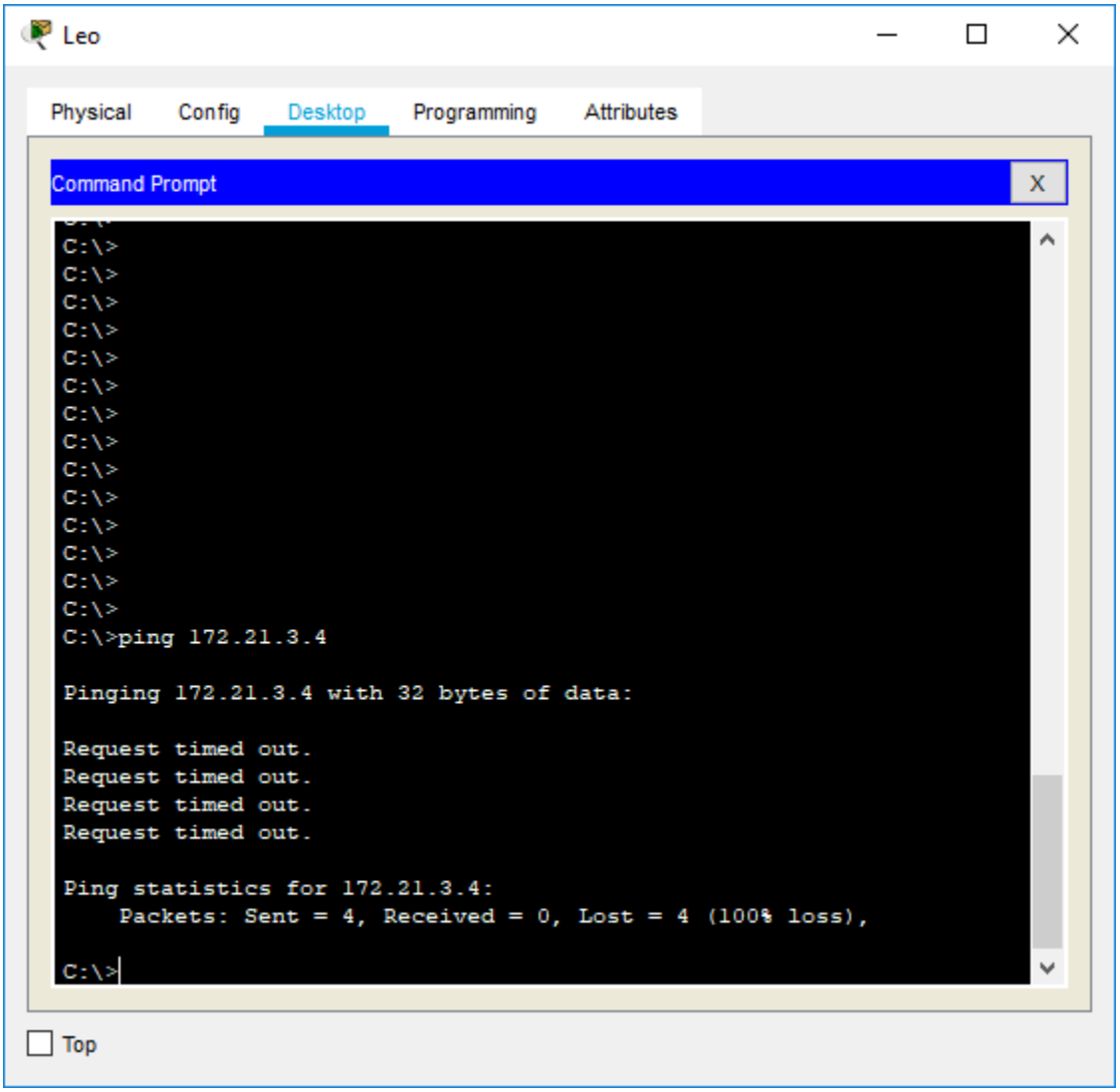
i. melakukan ping dari
   - pc leo ke pc aries



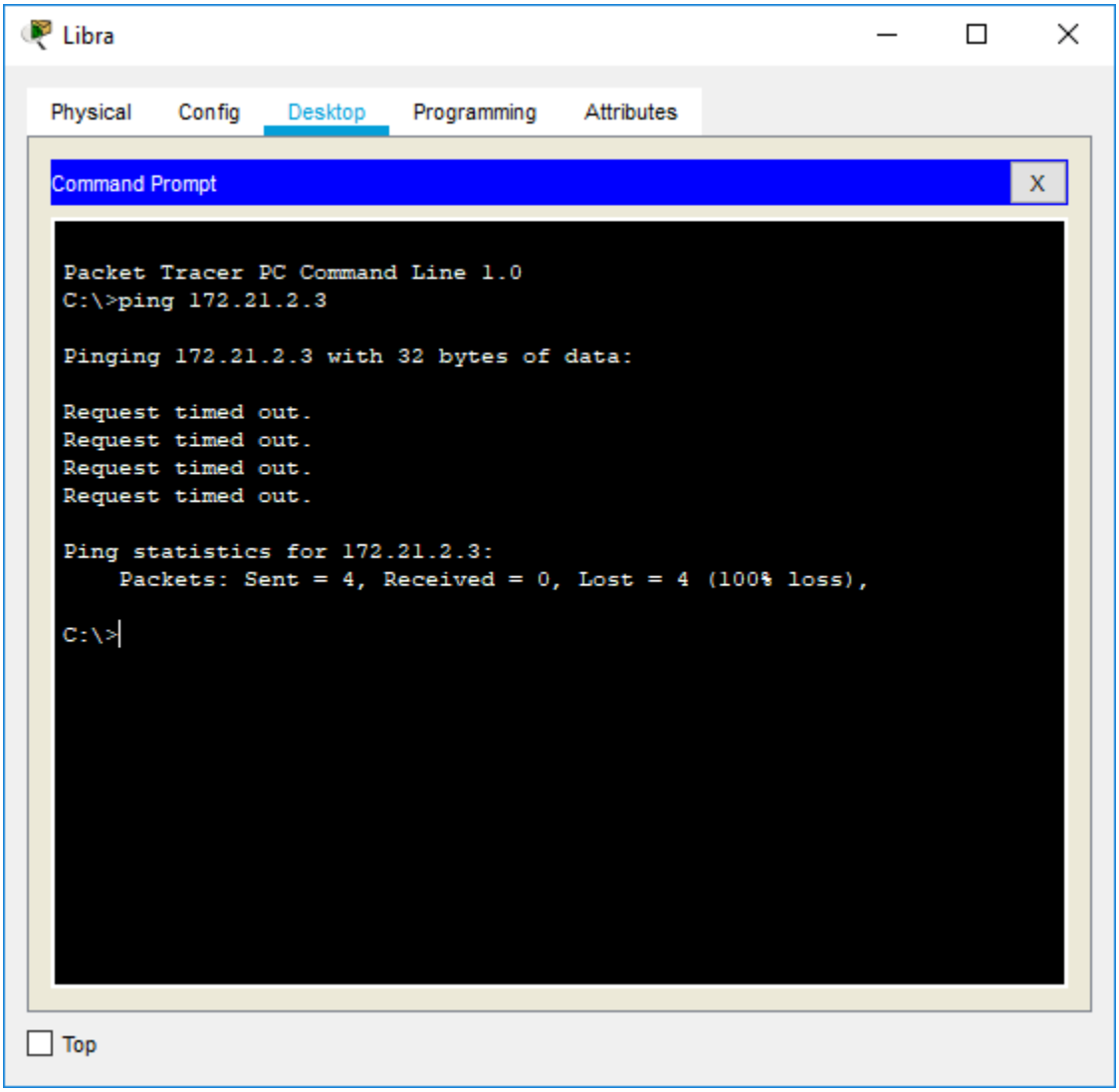
- pc leo ke pc aquarius



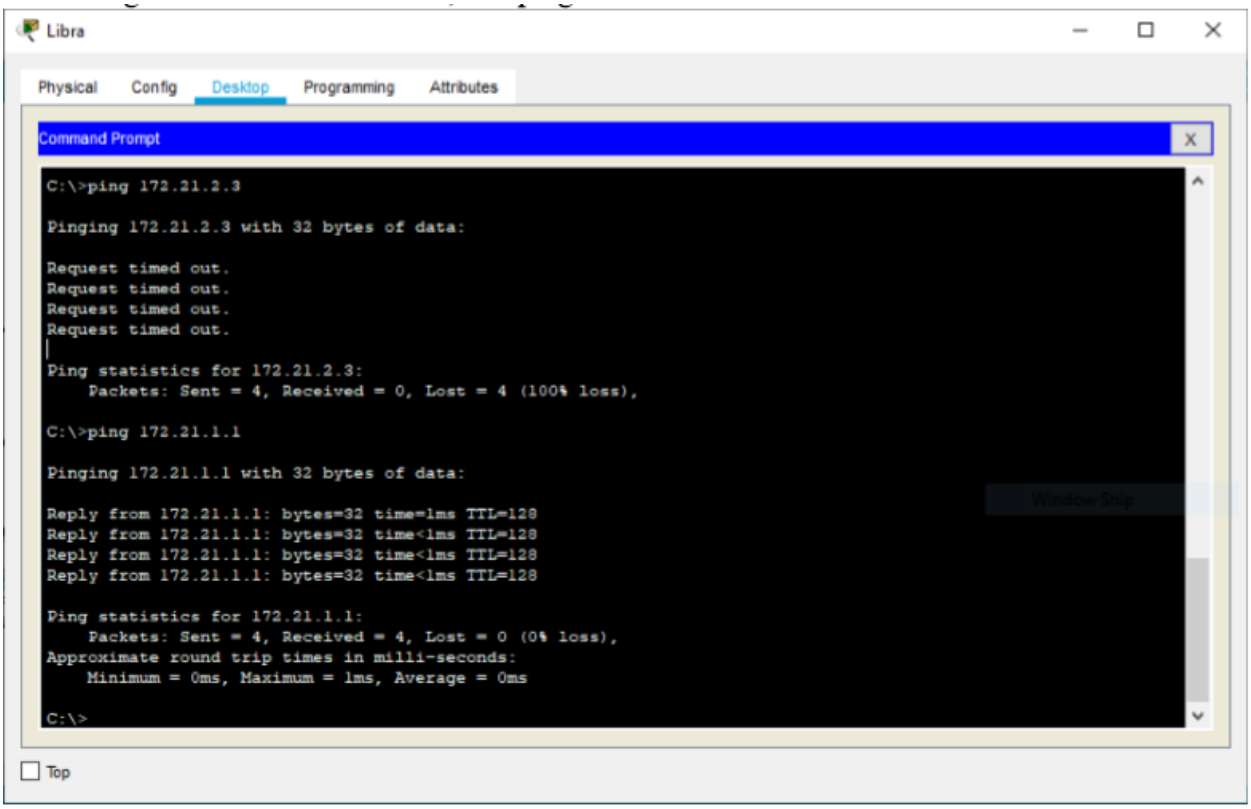
- Pc leo ke pc pisces



- Pc libra ke pc cancer



- Pc libra ke pc leo



TUGAS 12A:

Dari hasil yang diperoleh bahwa akan mendapatkan hasil reply apabila pc berada pada jaringan dan vlan yang sama. Sedangkan apabila hanya sama dari salah satu vlan atau jaringan maka hasilnya juga akan RTO.