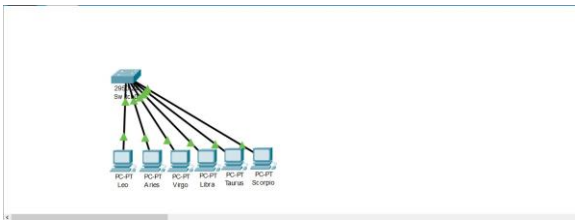
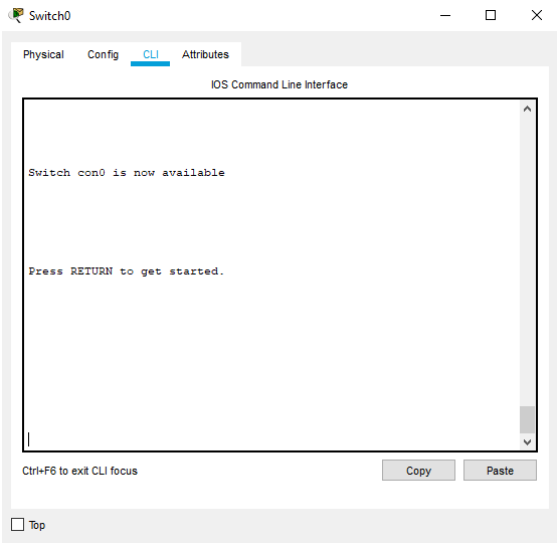
MUHAMMAD ROSYAD ADI PRATAMA
L200184044

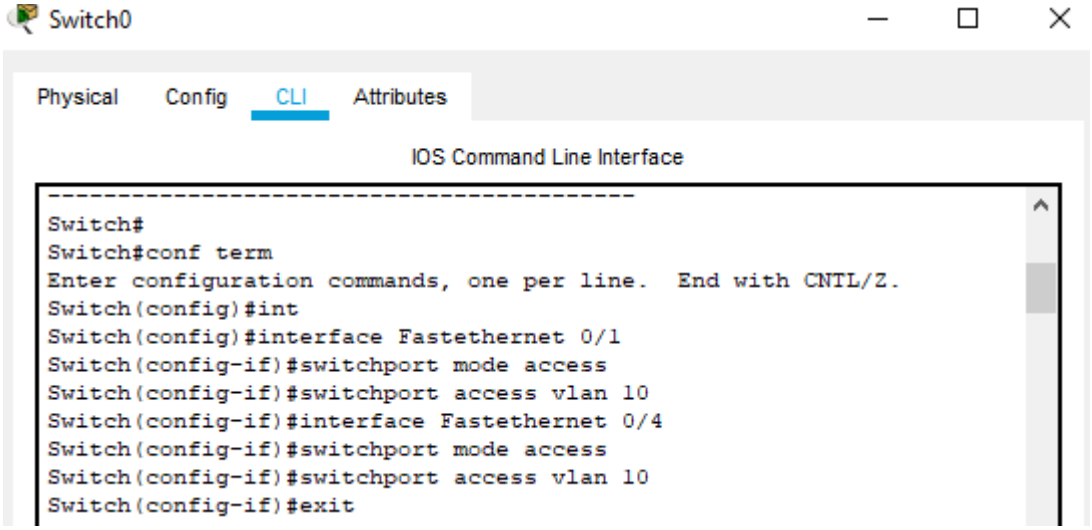
MODUL 4

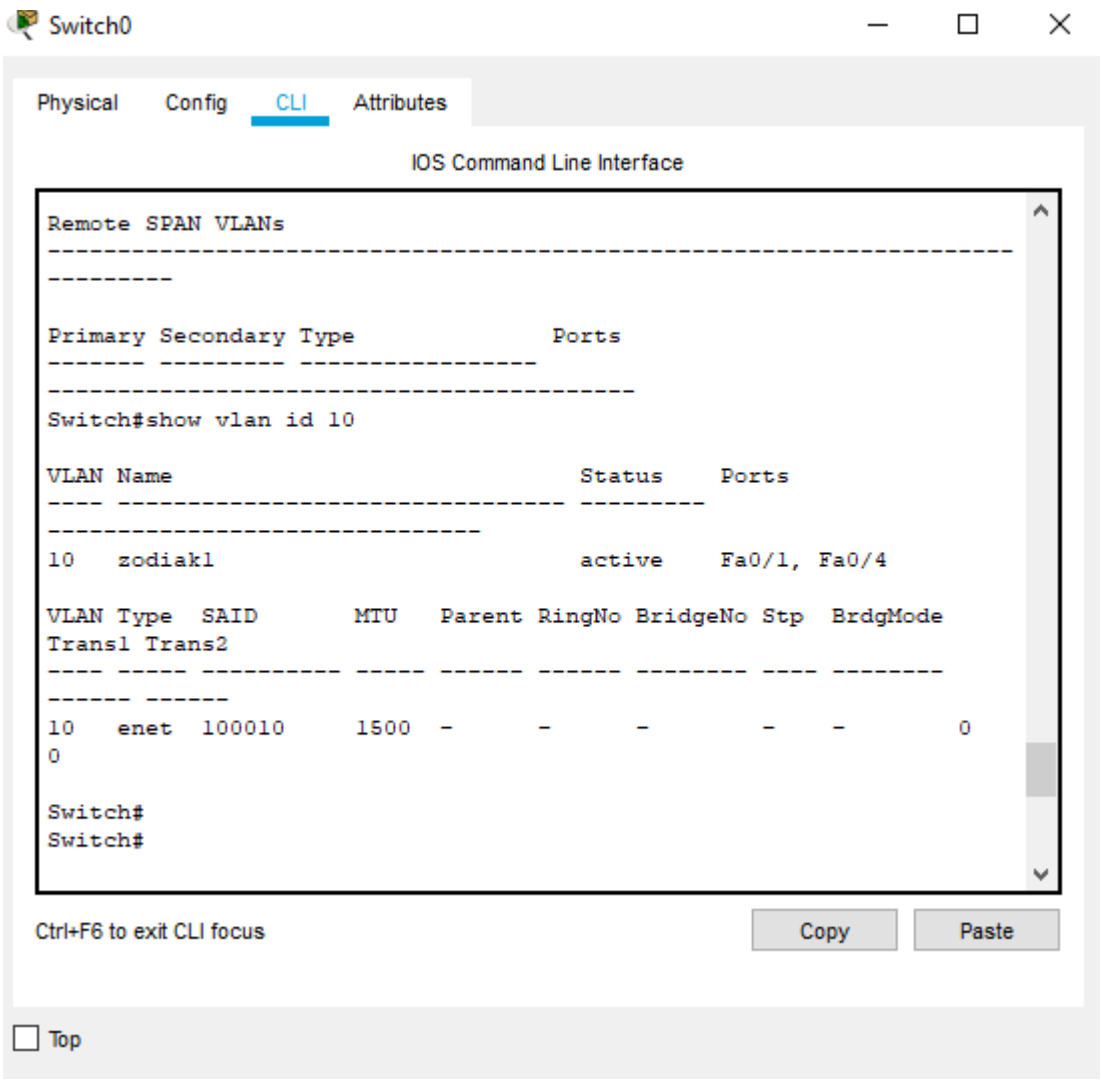
VIRTUAL LAN DAN TRUNKING





- Tugas 6A : Capture masing-masing tampilan informasi vlan da nisi tabel berikut.





NO	Variabel	Nilai
1	Nomor VLAN	10
2	Nama VLAN	zodiak1
3	Port	Fa 0/1, Fa 0/4
4	Status	Active

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#int
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
```

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

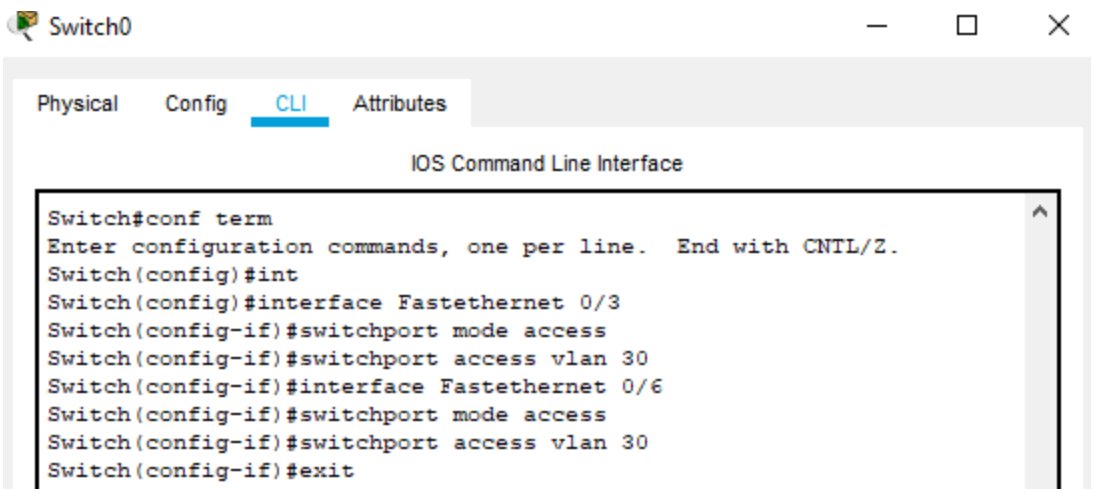
```
---- ----- ---------- ----- ------ ------ -------- ---- --------
------ ------

Remote SPAN VLANs
------------------------------------------------------------------------
---------

Primary Secondary Type              Ports
------- --------- -----------------
------------------------------------------
Switch#show vlan id 20

VLAN Name                              Status    Ports
---- --------------------------------- ---------
--------------------------------
20   zodiak2                           active    Fa0/2, Fa0/5

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode
Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
------ ------
20   enet  100020     1500  -      -      -        -    -        0
0

Switch#
```

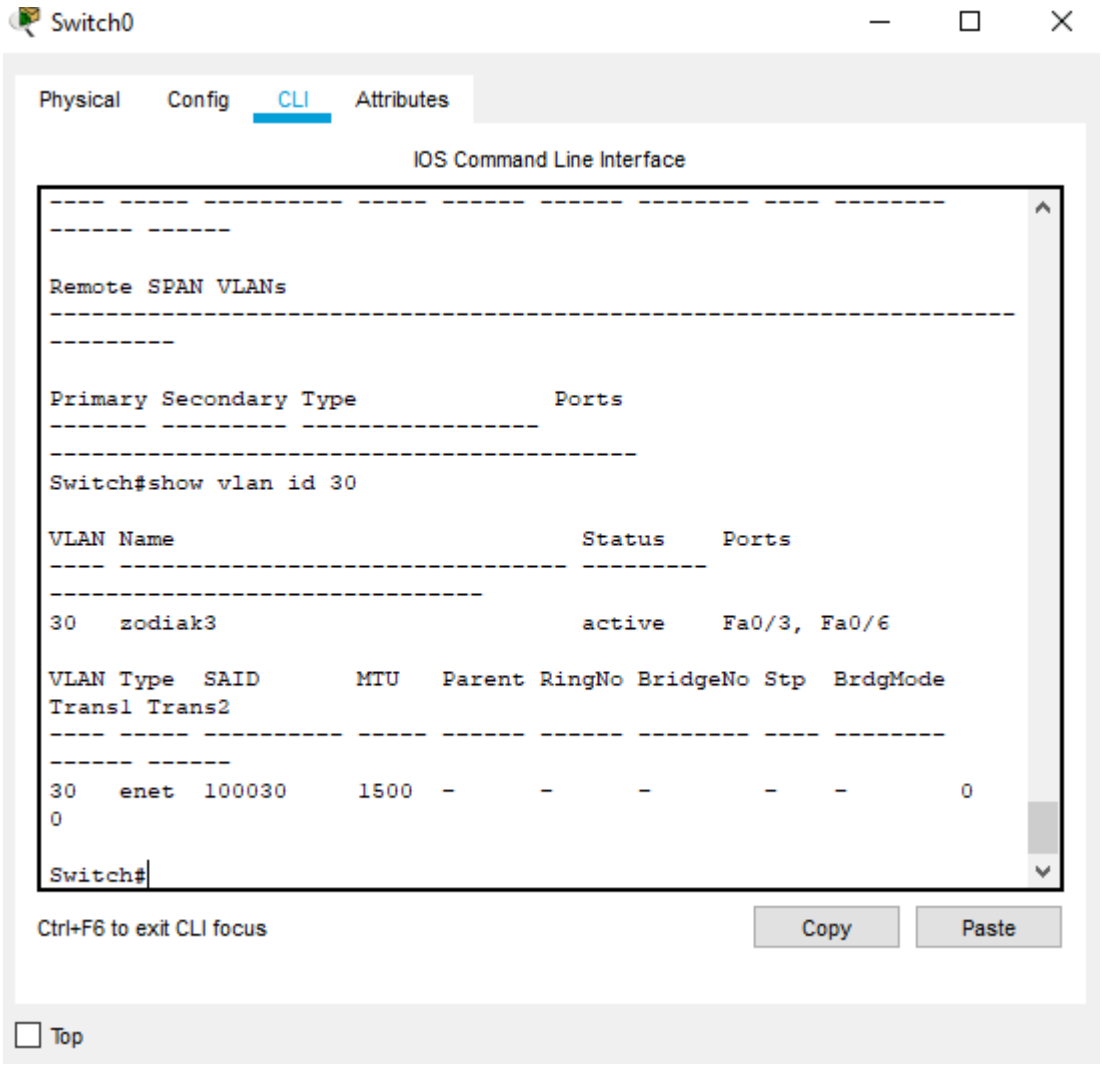
Ctrl+F6 to exit CLI focus

Copy Paste

Top

NO	Variabel	Nilai
1	Nomor VLAN	20
2	Nama VLAN	zodiak2
3	Port	Fa 0/2 , Fa 0/5
4	Status	Active

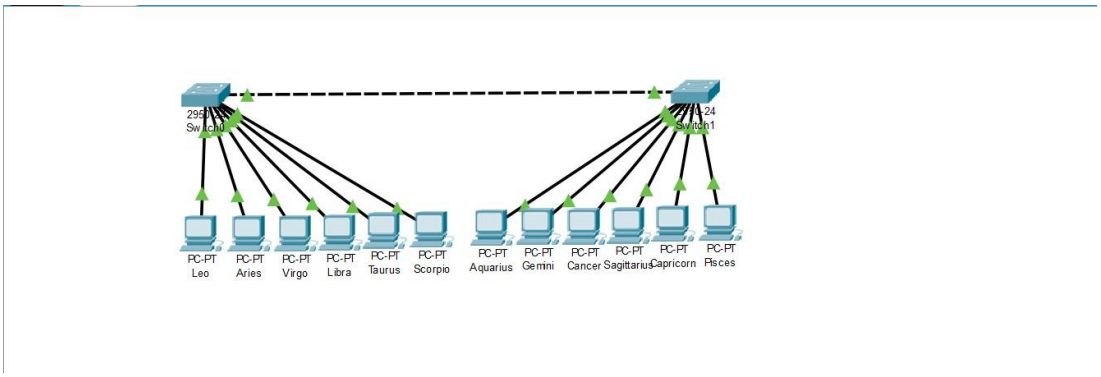


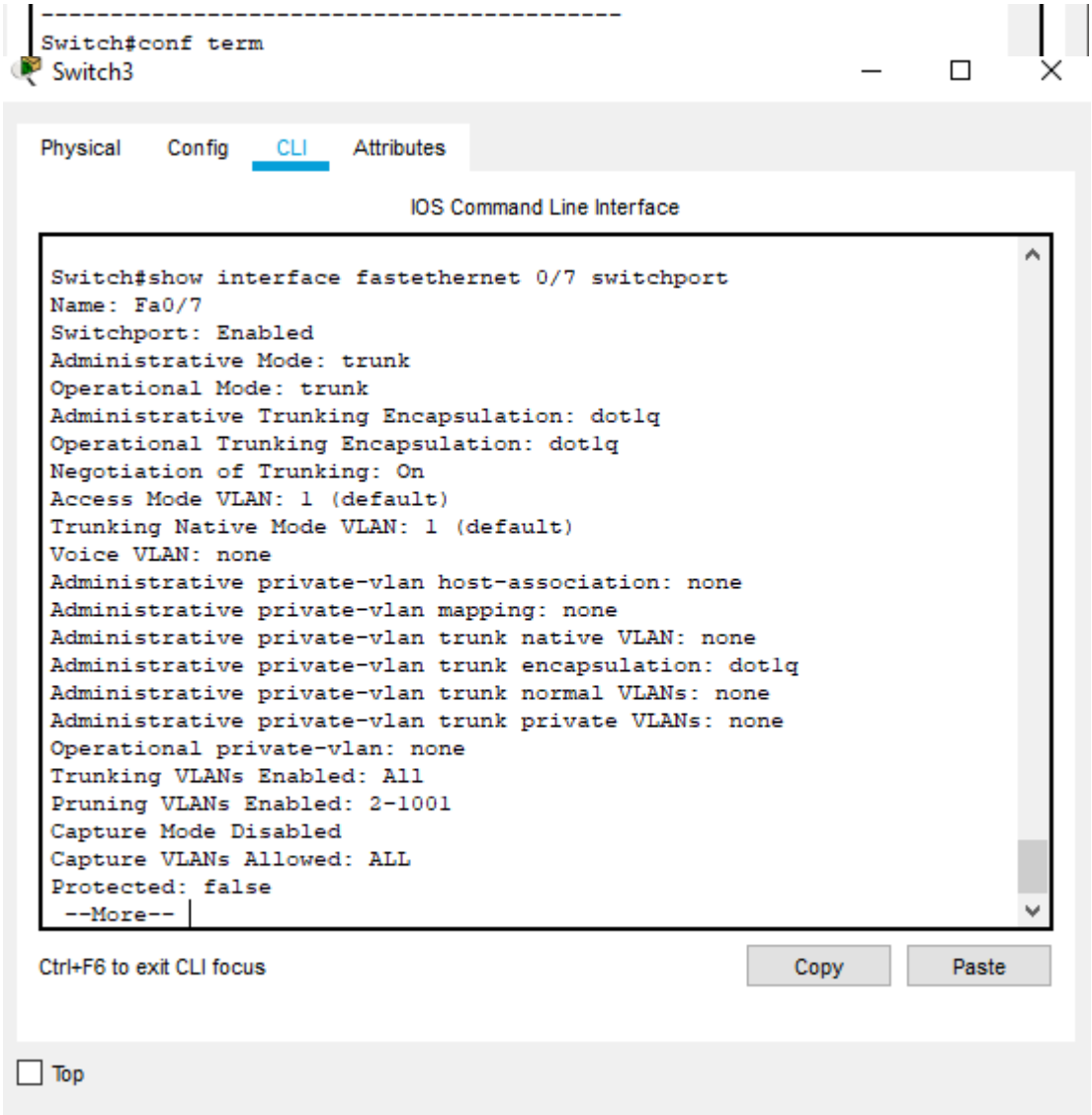


NO	Variabel	Nilai
1	Nomor VLAN	30
2	Nama VLAN	zodiak3
3	Port	Fa 0/3, Fa 0/6
4	Status	Active

- Tugas 6B : Jelaskan secara singkat hasil yang anda peroleh dari tugas 6A.

Kegitan 2. Topologi 2





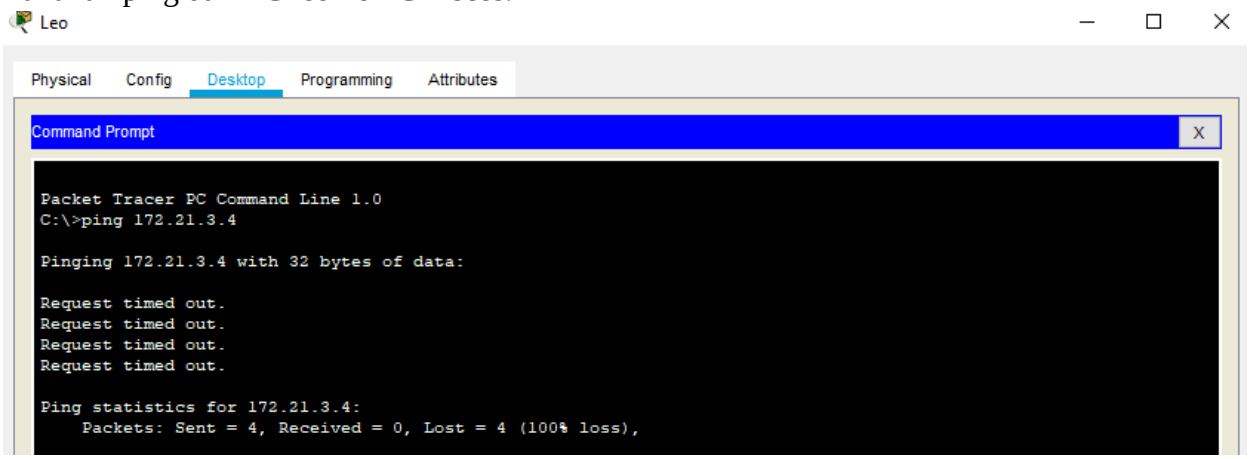
- Ketik ***show interface fastethernet 0/?? trunk*** (?? Nomor port trunking)

- ketik show vlan

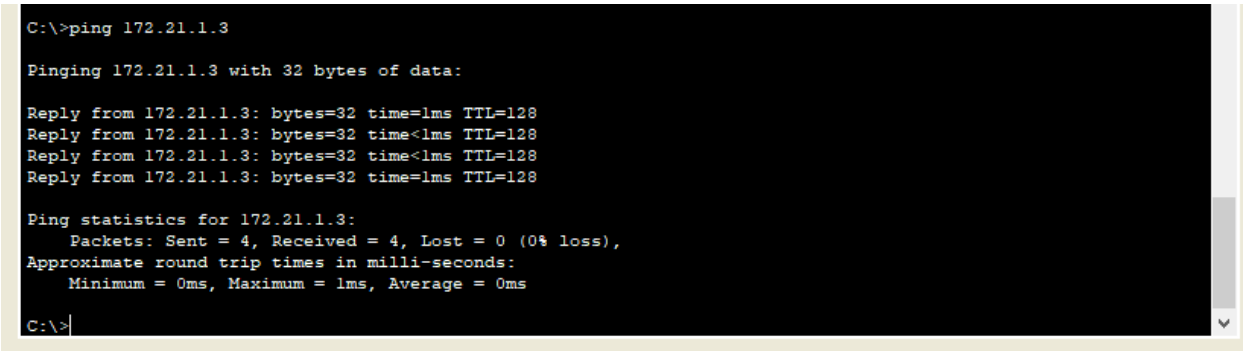
```
Switch#show vlan

VLAN Name                              Status    Ports
---- --------------------------------- --------- -------------------------------
1    default                           active    Fa0/8, Fa0/9, Fa0/10,
Fa0/11
                                                 Fa0/12, Fa0/13,
Fa0/14, Fa0/15
                                                 Fa0/16, Fa0/17,
Fa0/18, Fa0/19
                                                 Fa0/20, Fa0/21,
Fa0/22, Fa0/23
                                                 Fa0/24
10   zodiak1                           active    Fa0/1, Fa0/4
20   zodiak2                           active    Fa0/2, Fa0/5
30   zodiak3                           active    Fa0/3, Fa0/6
1002 fddi-default                      active
1003 token-ring-default                active
1004 fddinet-default                   active
1005 trnet-default                     active

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode
Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
```

- Tugas 7A : Jelaskan secara singkat hasil yang anda peroleh dari langkah 7. Dari langkah 7A dapat diperoleh kesimpulan bahwa kita bisa melihat interface fa berapa yang akan diubah modenya ke mode trunk. Mode itu bertujuan untuk koneksi antar switch dengan vlan yang sama. Lalu kita juga bias melihat keseluruhan vlan yang ada.

2. Lakukan ping dari PC leo ke PC Pisces.



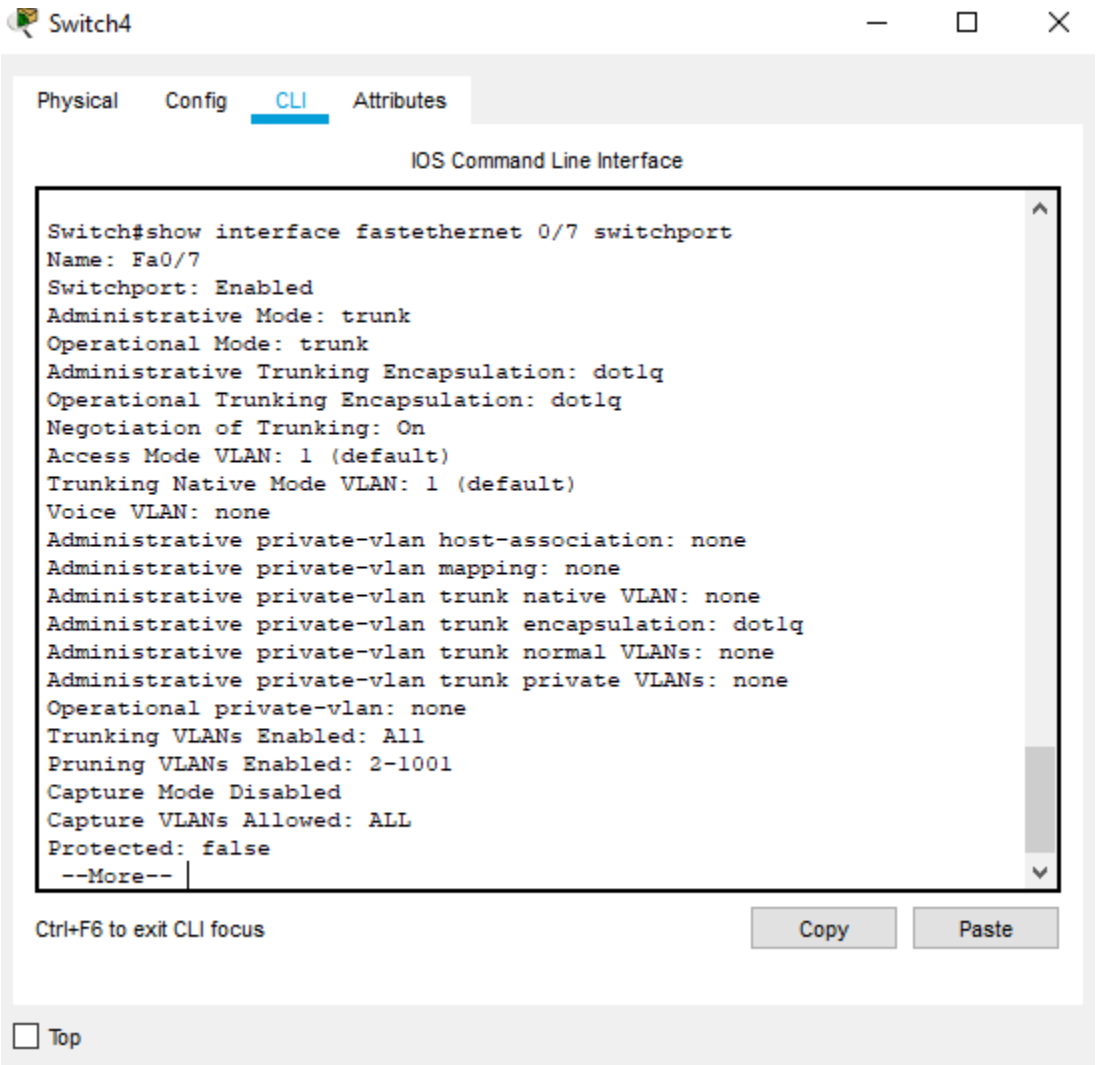
- Tugas 8A : Jelaskan secara singkat mengapa hasil yang anda peroleh dari langkah 8 mendapatkan status “reply”? Karena di switch 2 belum dibuat interface sebagai penghubung dengan switch 1.



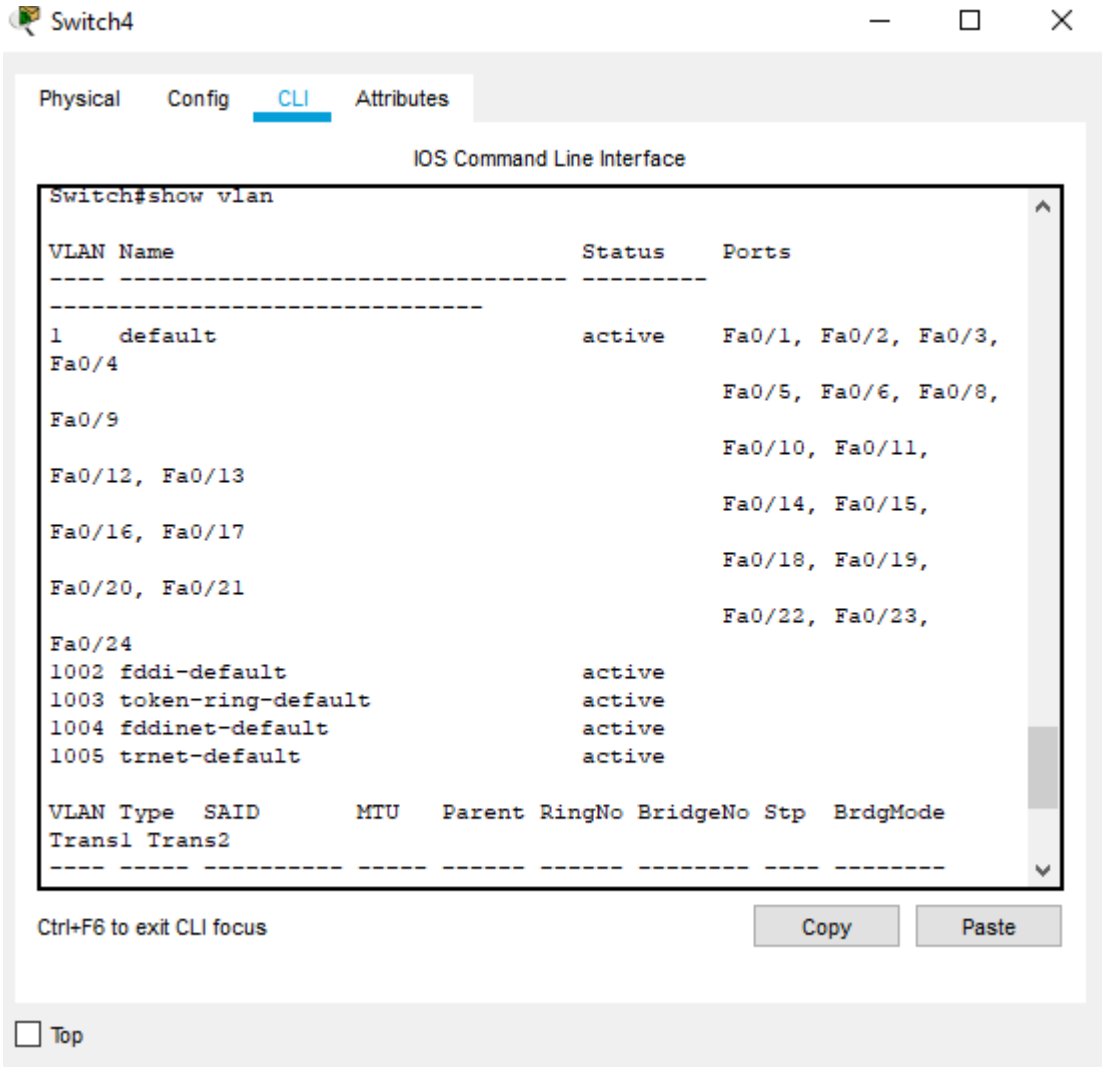
Ping Leo ke Aquarius

3. Lakukan konfigurasi VLAN trunking pada switch 2 seperti langkah 6.

4. Pada *mode user* atau *mode privileged* , lihat konfigurasi vlan pada switch 2.



Langkah pengoperasian untuk melihat konfigurasi
- Tekan enter
- Masuk *mode privileged*
- Ketik ***show vlan***



- Tugas 10A : Jelaskan secara singkat hasil yang anda peroleh dari langkah 10.

5. Pada *mode configuration* ¸ konfigurasi port-port switch ke dalam VLAN zodiak1, zodiak2, dan zodiak3 dengan anggota sebagai berikut :

```
Switch#
Switch#conf term
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name zodiak1
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#name zodiak2
Switch(config-vlan)#exit
Switch(config)#vlan 30
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#exit
```

- zodiak1 = aquarius dan gemini

```
Switch#show vlan id 10

VLAN Name                              Status    Ports
---- --------------------------------- ---------
--------------------------------
10   zodiak1                           active    Fa0/1, Fa0/2

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode
Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
------ ------
10   enet  100010     1500  -      -      -        -    -        0
0
```

- zodiak2 = cancer dan sagitarius

```
Switch#show vlan id 20

VLAN Name                              Status    Ports
---- --------------------------------- ---------
--------------------------------
20   zodiak2                           active    Fa0/3, Fa0/4

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode
Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
------ ------
20   enet  100020     1500  -      -      -        -    -        0
0

Switch#
```

- zodiak3 = capricornus dan pisces

```
Switch#show vlan id 30

VLAN Name                              Status    Ports
---- --------------------------------- ---------
--------------------------------
30   zodiak3                           active    Fa0/5, Fa0/6

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode
Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
------ ------
30   enet  100030     1500  -      -      -        -    -        0
0

Switch#
```

Ctrl+F6 to exit CLI focus

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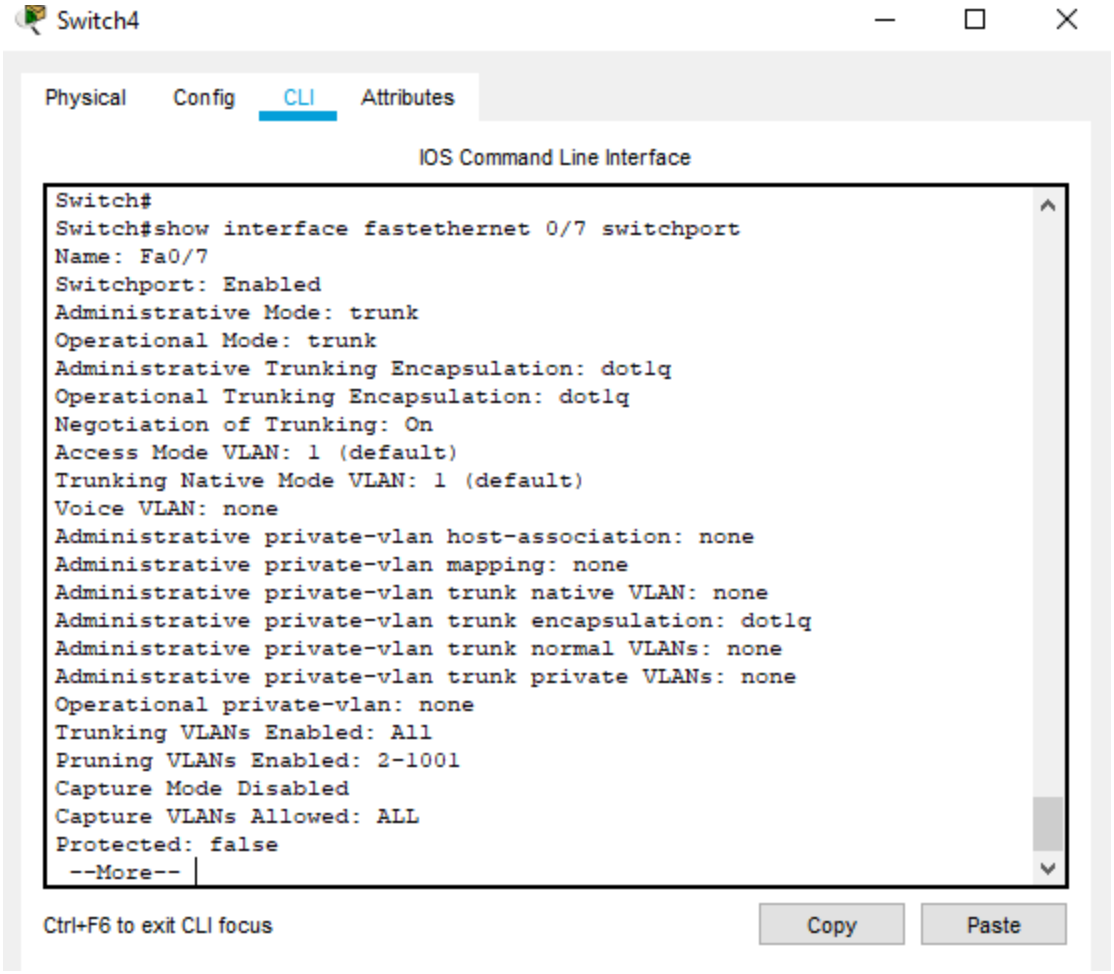
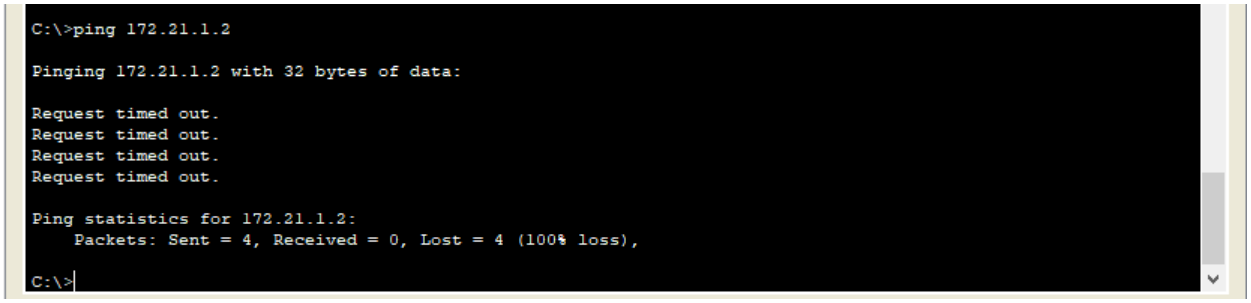
6. Lakukan ping dari PC leo ke PC aries, PC leo ke PC aquarius , PC leo ke PC pisces , PC libra ke Cancer dan PC libra ke Leo.



Leo ke Aries



Leo ke Aquarius

```
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128
Reply from 172.21.1.3: bytes=32 time=1ms TTL=128

Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Leo ke Pisces

```
C:\>ping 172.21.3.4

Pinging 172.21.3.4 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.3.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Libra ke Cancer

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

Pinging 172.21.2.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.2.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Libra ke Leo

```
C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

- Tugas 12A : Jelaskan secara singkat hasil yang anda peroleh dari langkah 8.

  Dari hasil percobaan diatas, dapat disimpulkan apabila PC berada pada VLAN yang sama, maka akan menghasilkan status Reply. Akan tetapi jika berada pada VLAN yang berbeda akan menghasilkan status Request Time Out.