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NIM : L200180201

KELAS : E

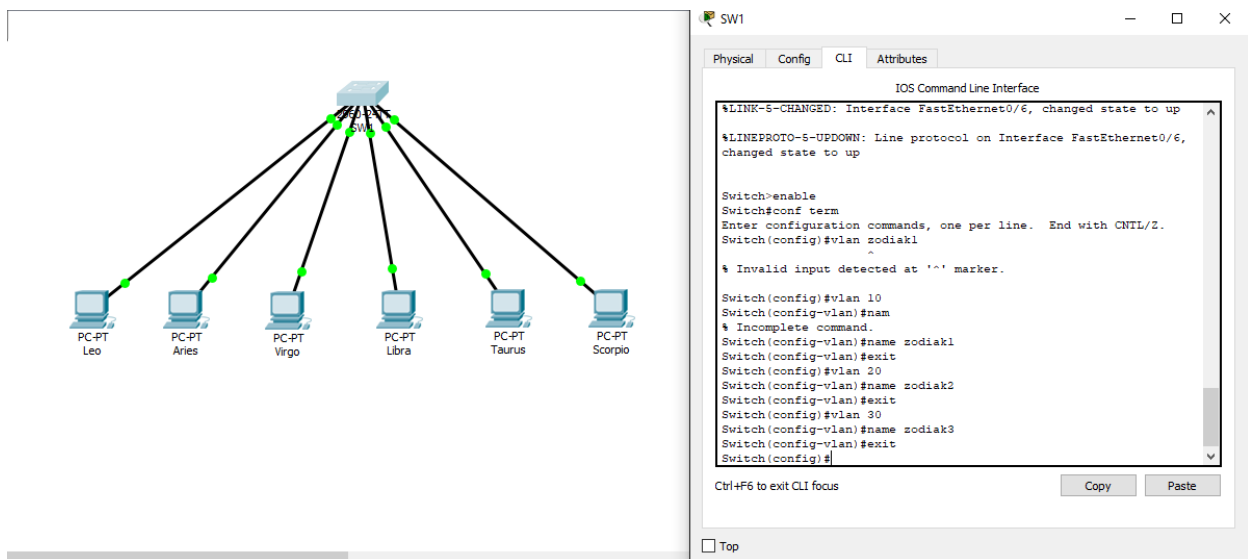
PRAKTIKUM JARINGAN KOMPUTER

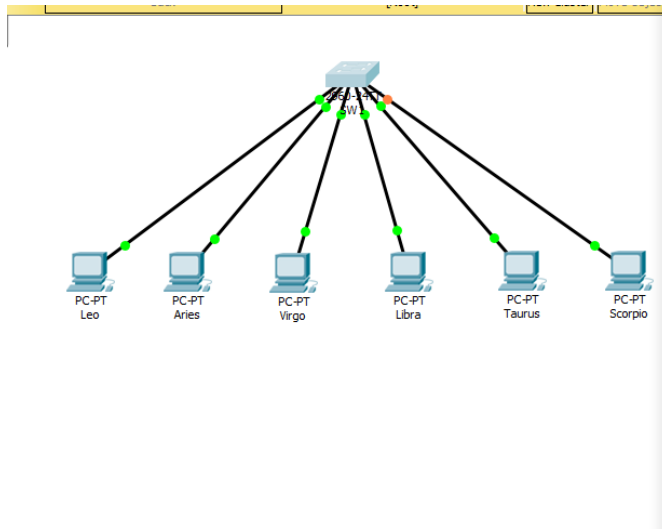
MODUL 4

VIRTUAL LAN DAN TRUNKING

Kegiatan Praktikum

KEGIATAN 1 TOPOLOGI 1





SW1

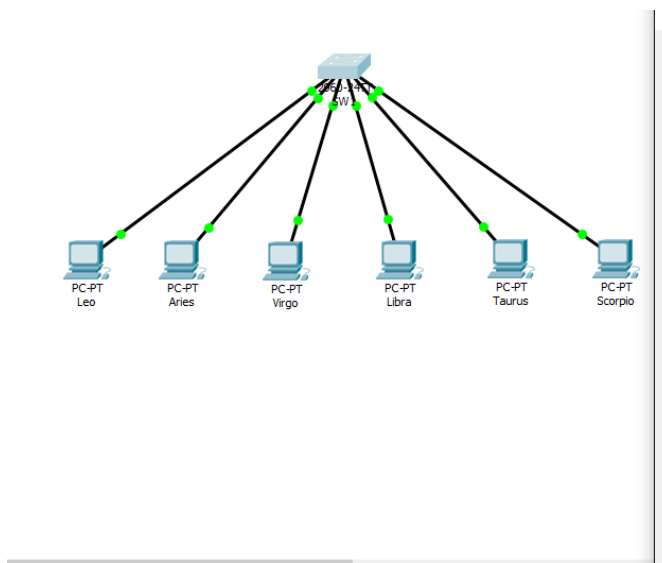
Physical Config CLI Attributes

IOS Command Line Interface

```
Switch(config-vlan)#exit
Switch(config)#vlan 30
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#exit
Switch(config)#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 mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#
```

Ctrl+F6 to exit CLI focus

Copy Paste



SW1

Physical Config CLI Attributes

IOS Command Line Interface

```
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan brief

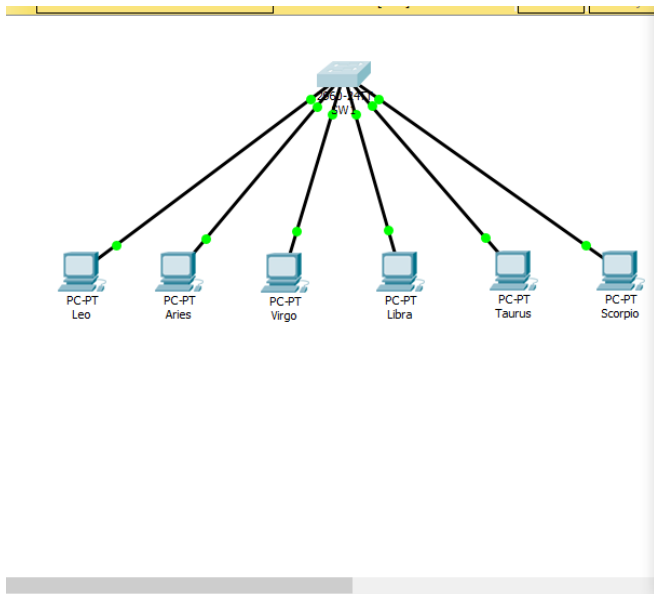
VLAN Name                Status    Ports
-----
1    default                active    Fa0/7, Fa0/8,
Fa0/9, Fa0/10
10   zodiak1                 active    Fa0/11, Fa0/12,
Fa0/13, Fa0/14
20   zodiak2                 active    Fa0/15, Fa0/16,
Fa0/17, Fa0/18
30   zodiak3                 active    Fa0/19, Fa0/20,
Fa0/21, Fa0/22
1002 fddi-default          active
1003 token-ring-default   active
1004 fddinet-default      active
1005 trnet-default        active

Switch#
```

Ctrl+F6 to exit CLI focus

Copy Paste

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SW1

Physical Config CLI Attributes

IOS Command Line Interface

```

10 zodiak1 active Fa0/1, Fa0/4
VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode
Trans1 Trans2
-----
10 enet 100010 1500 - - - - -
0 0

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

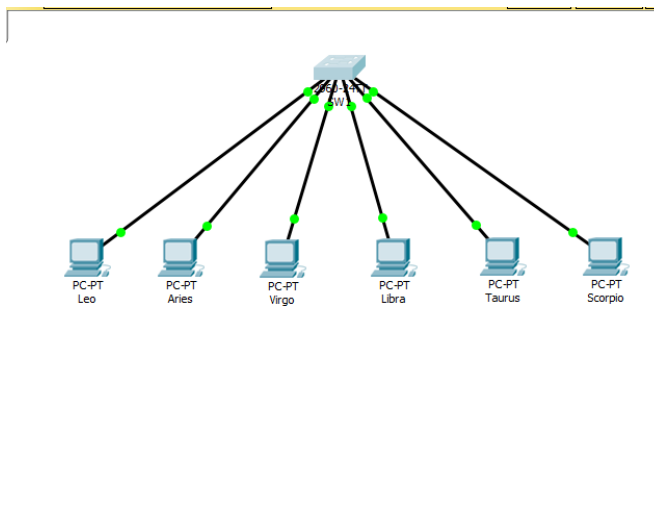
Switch#

```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top



SW1

Physical Config CLI Attributes

IOS Command Line Interface

```

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#show vlan id 30

VLAN Name Status Ports
-----
30 zodiak3 active Fa0/3, 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

Copy Paste

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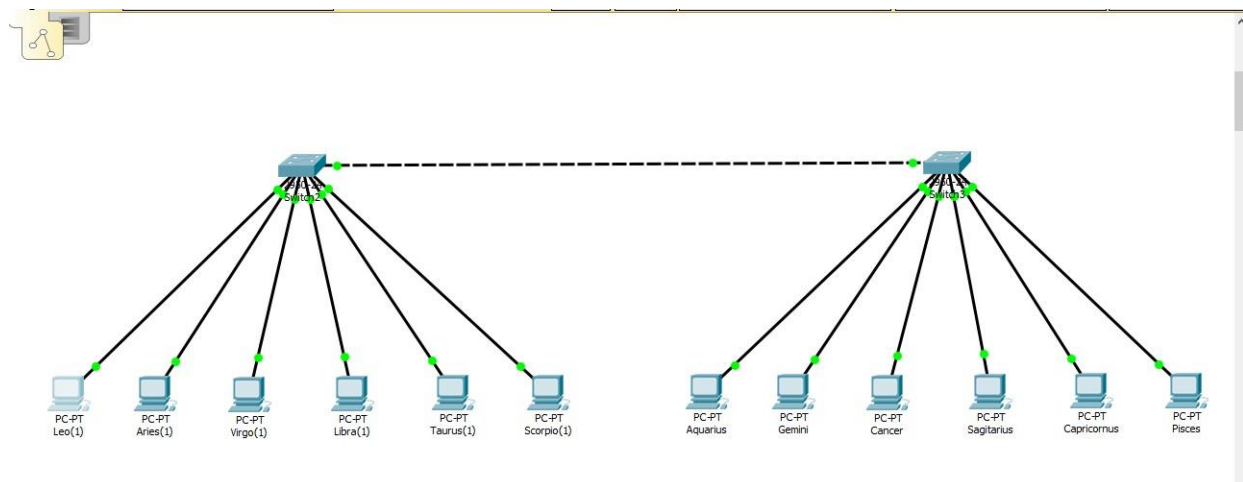
No	Variabel	Nilai
1.	Nomor VLAN	10
2.	Nama VLAN	zodiak1
3.	Port	Fa/01, Fa/04
4.	Status	active

No	Variabel	Nilai
1.	Nomor VLAN	20
2.	Nama VLAN	zodiak2
3.	Port	Fa/02, Fa/05
4	Status	active

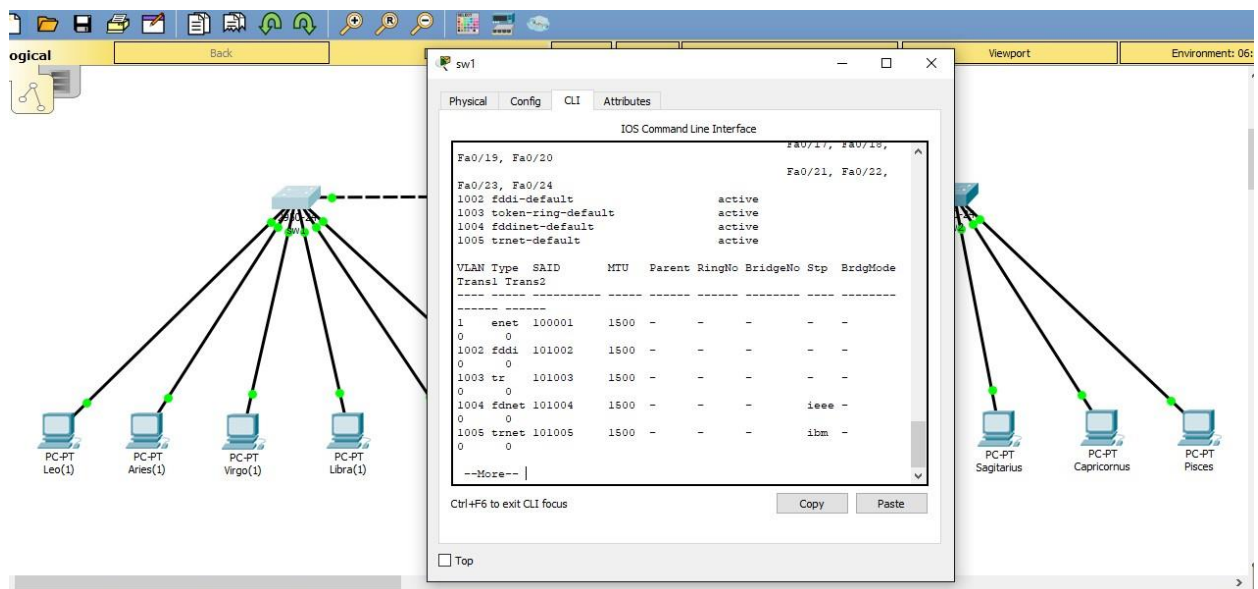
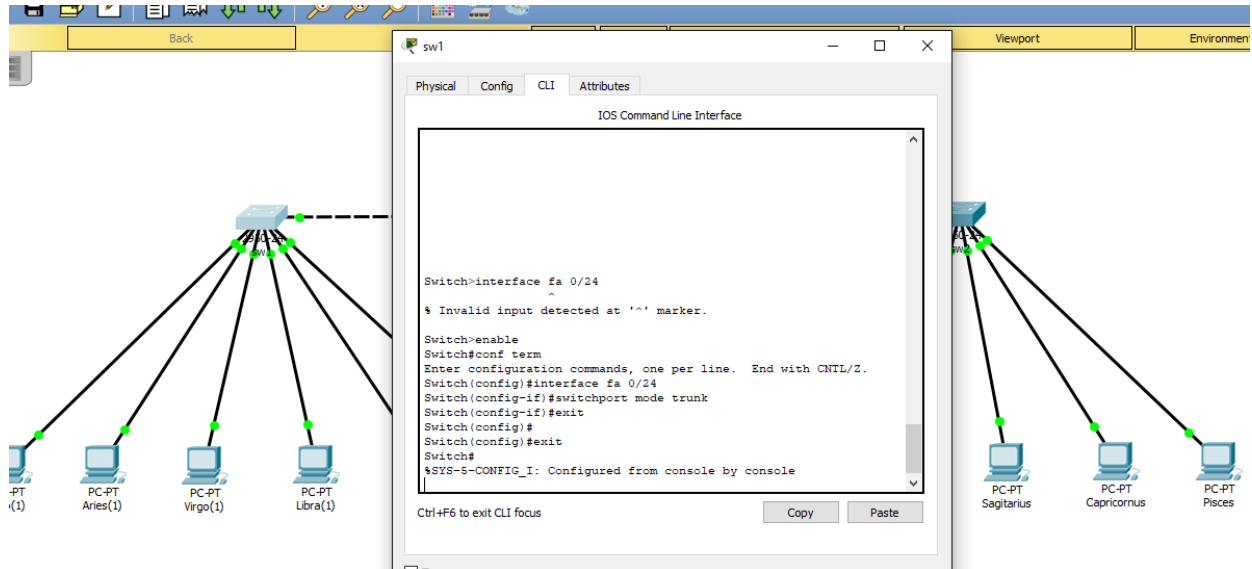
No	Variabel	Nilai
1.	Nomor VLAN	30
2.	Nama VLAN	zodiak3
3.	Port	Fa/03, Fa/06
4	Status	active

Tugas 6B. Semua vlan dapat diaktifkan

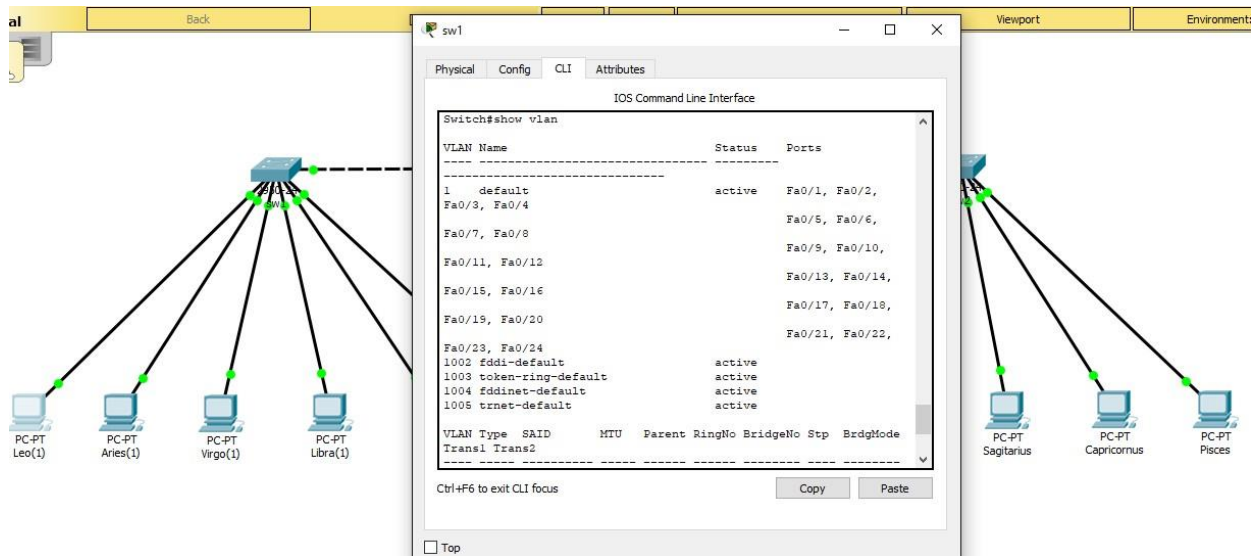
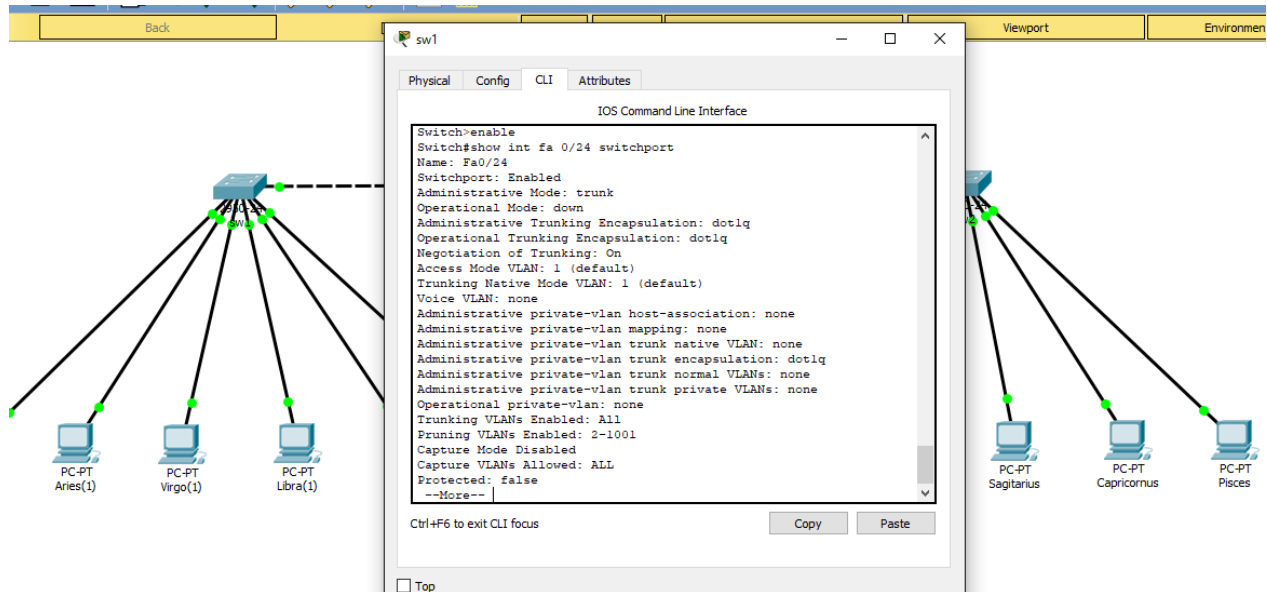
KEGIATAN 2 TOPOLOGI 2

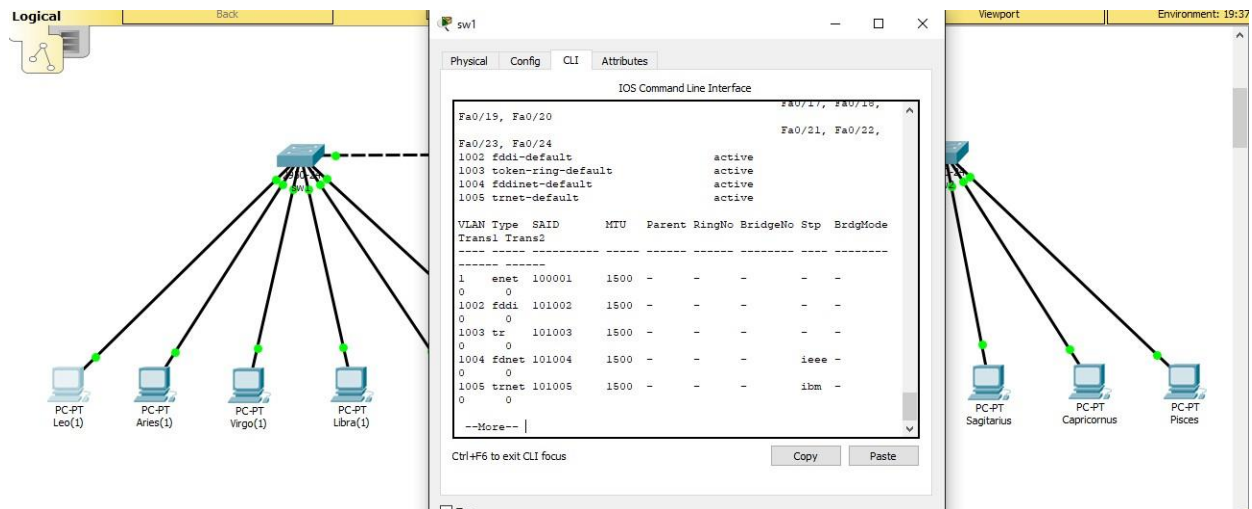


Konfigurasi vlan trunking pada switch 1



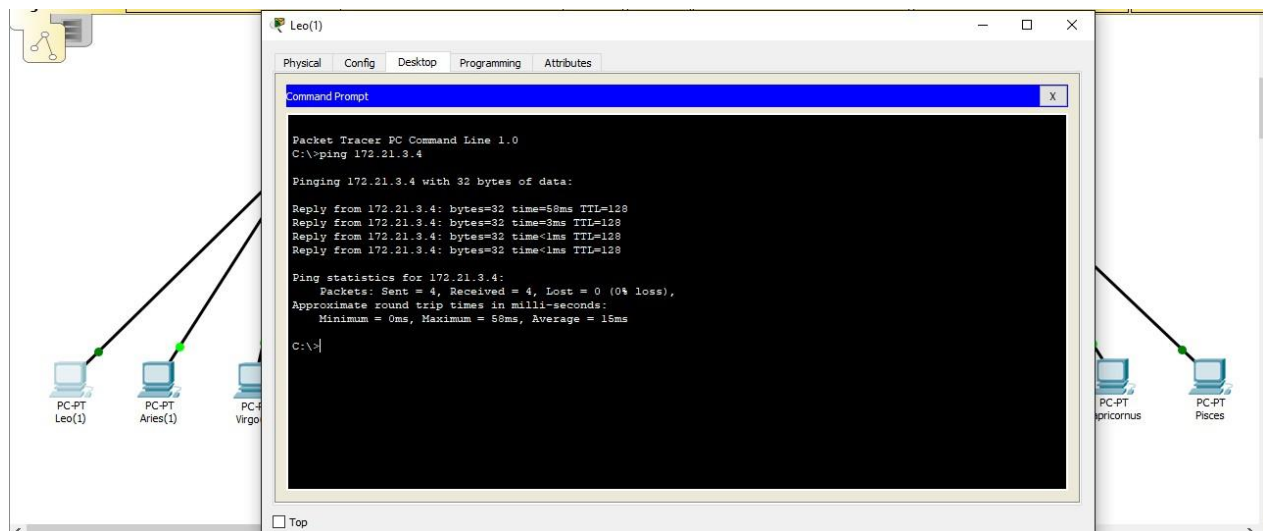
Konfigurasi trunking yang telah dibuat





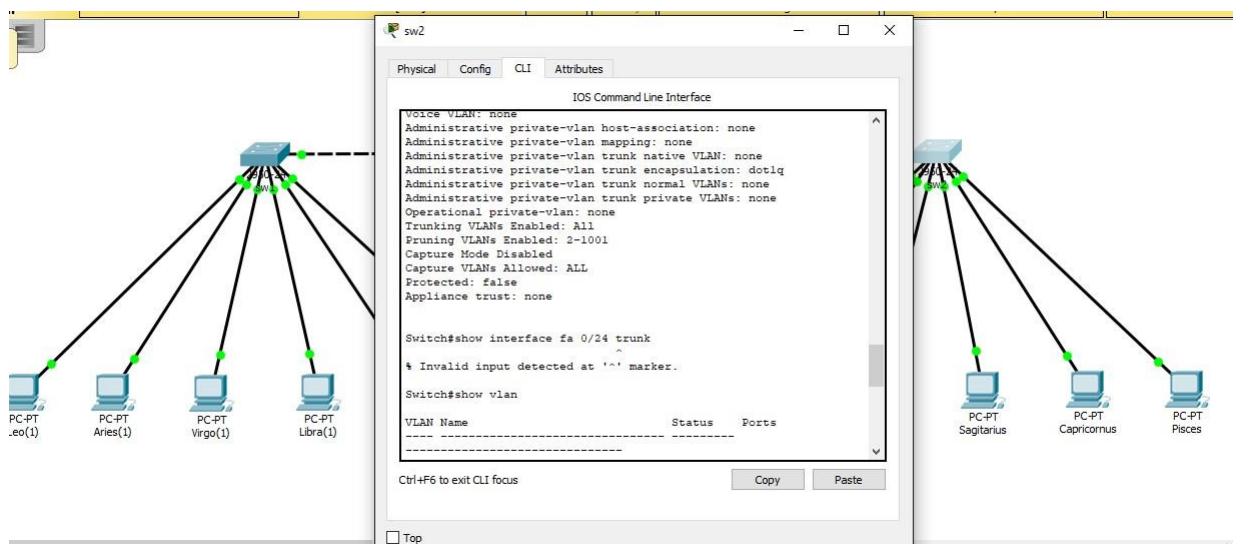
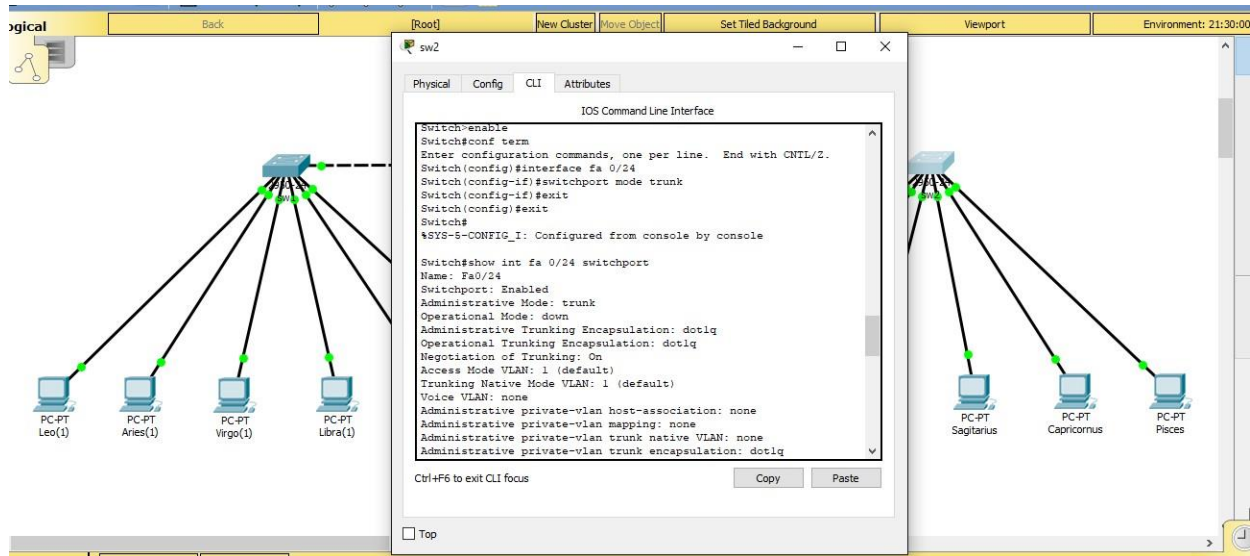
Tugas 7A. Semua vlan berhasil diaktifkan

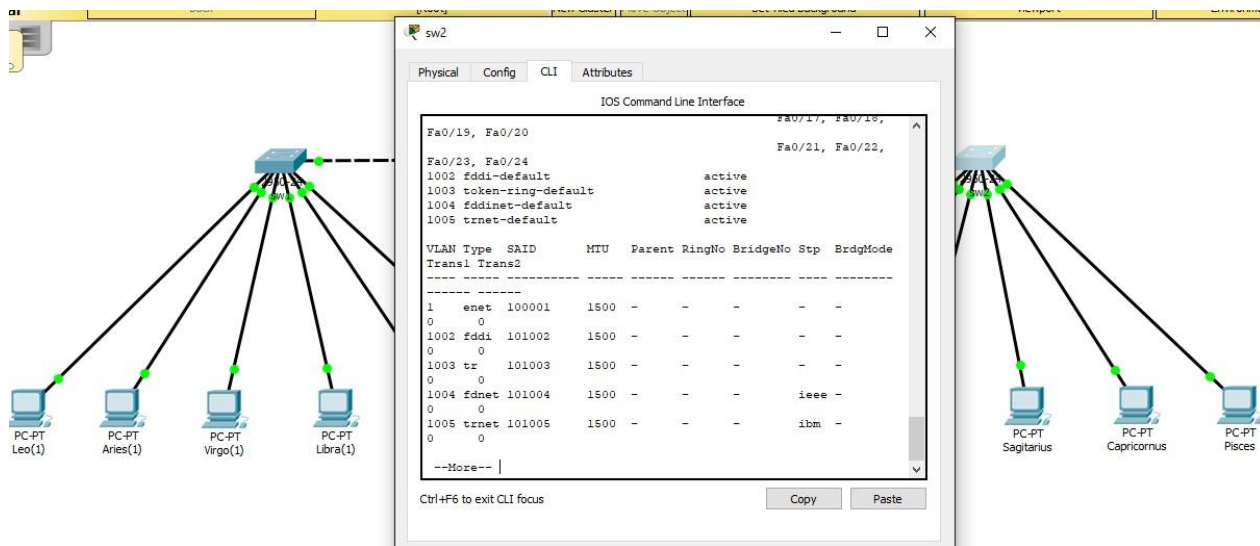
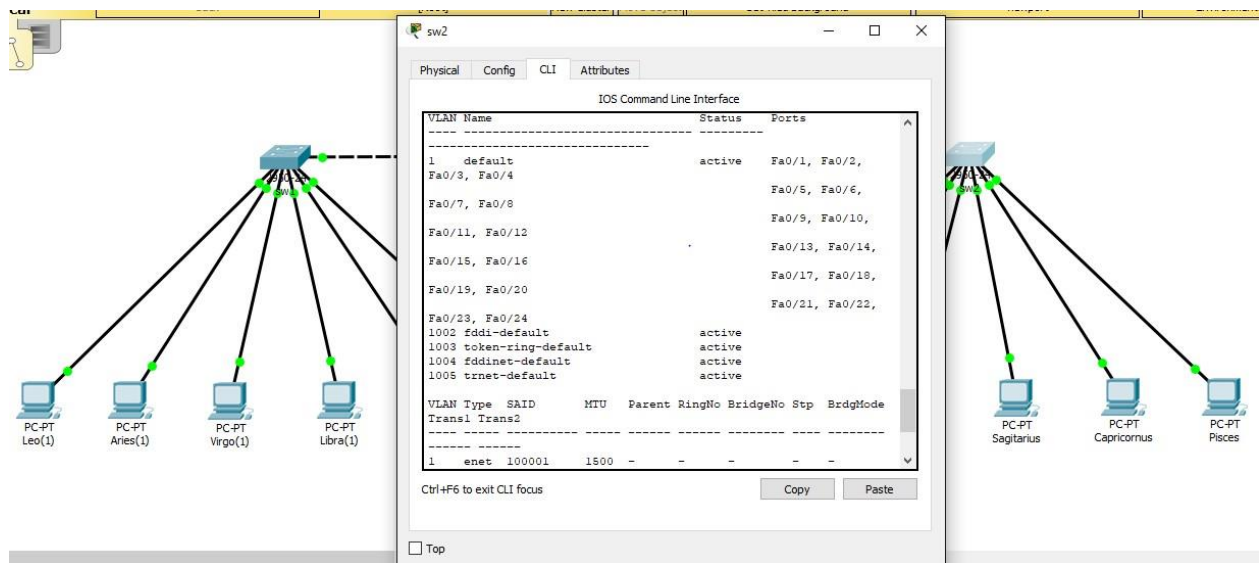
Ping Leo ke Pisces



Tugas 8A. Reply karena switchport mode trunk bisa menggunakan semua vlan yang ada

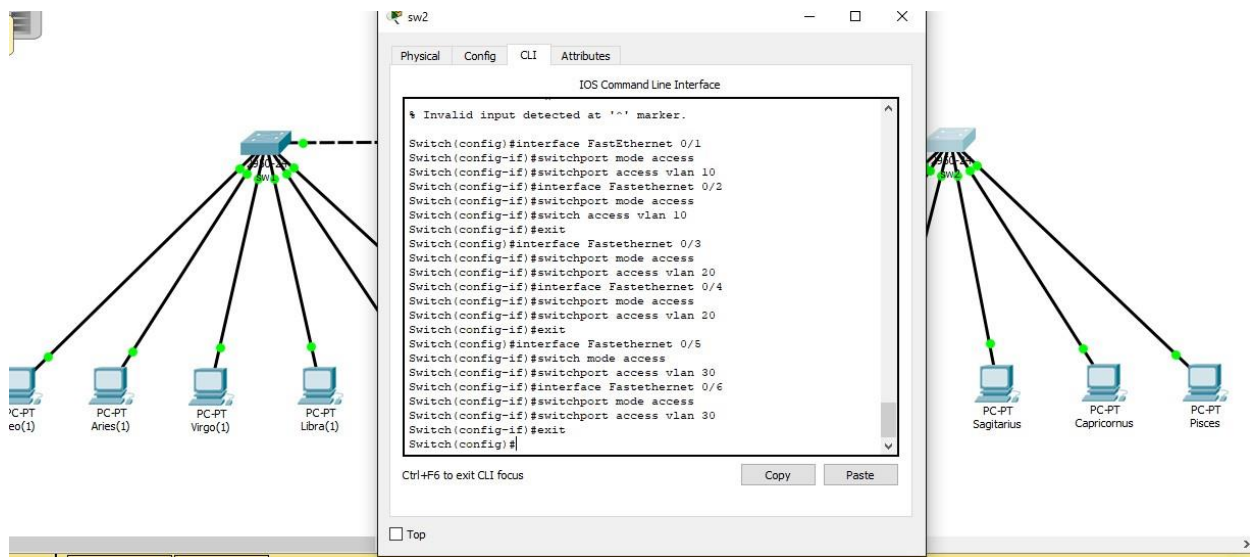
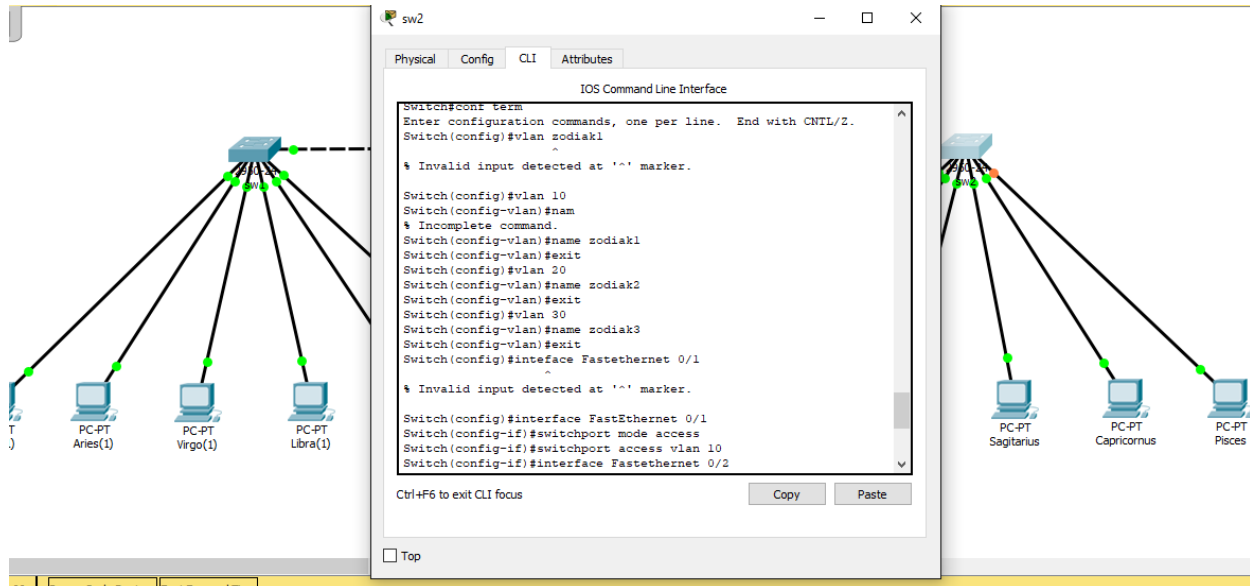
Konfigurasi vlan trunking pada switch 2

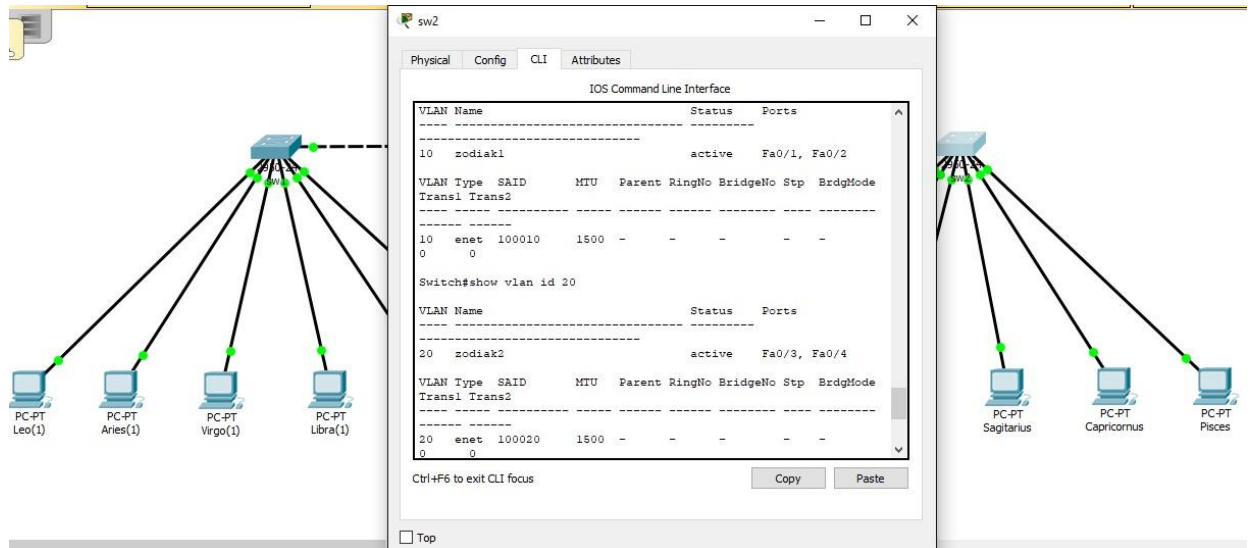
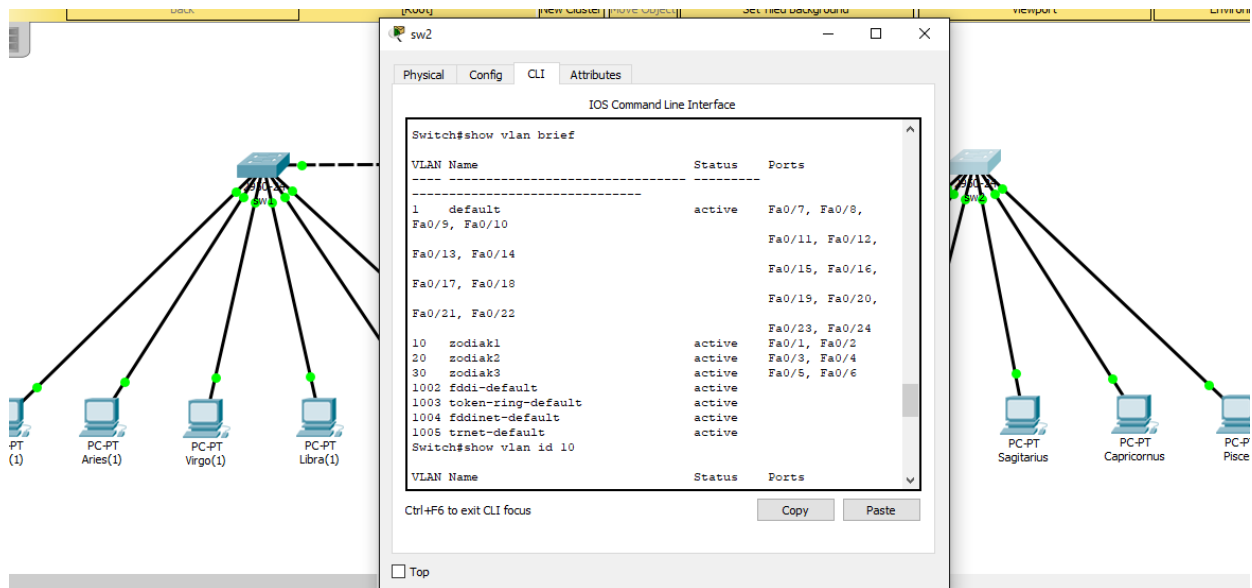


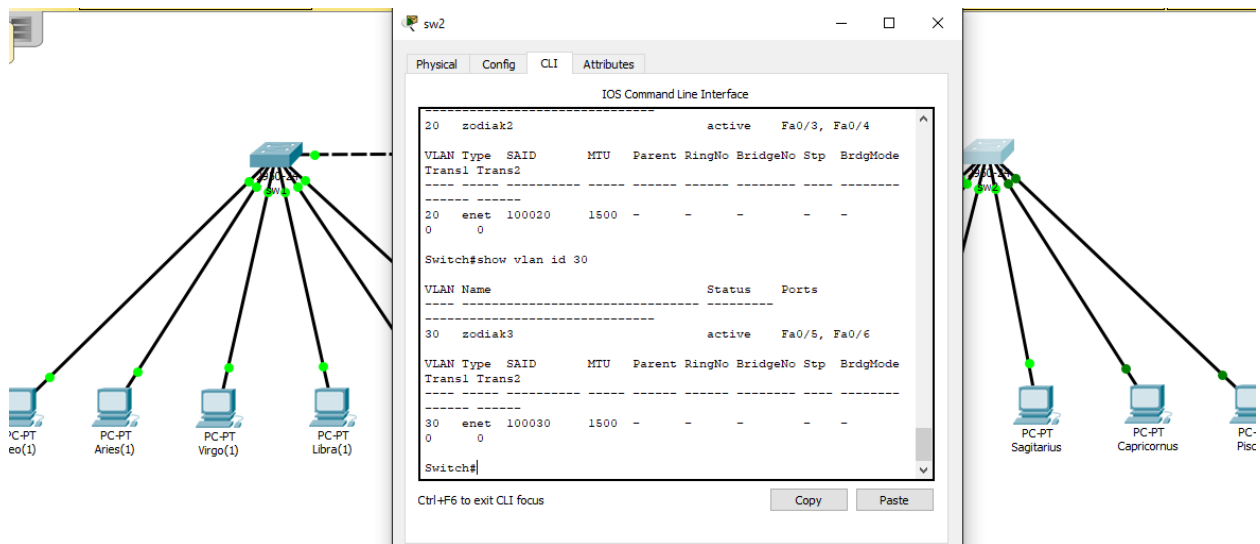


Tugas 10A. dalam mode trunk, semua vlan bisa digunakan sekaligus

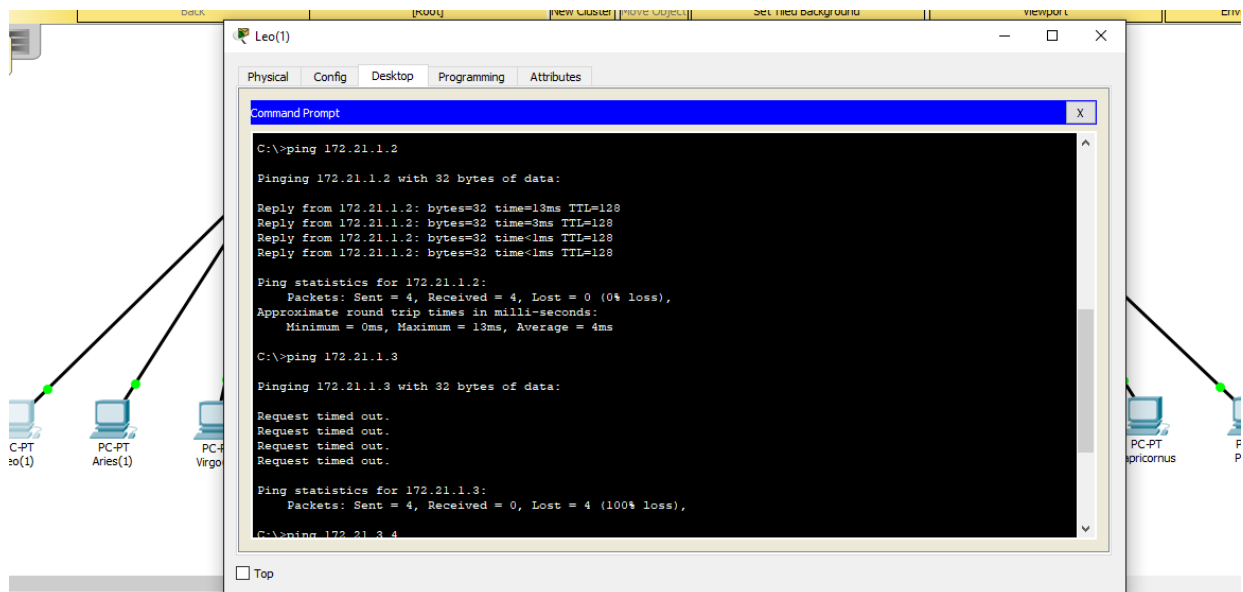
Konfigurasi port-port switch ke dalam vlan zodiak1, zodiak2, dan zodiak3

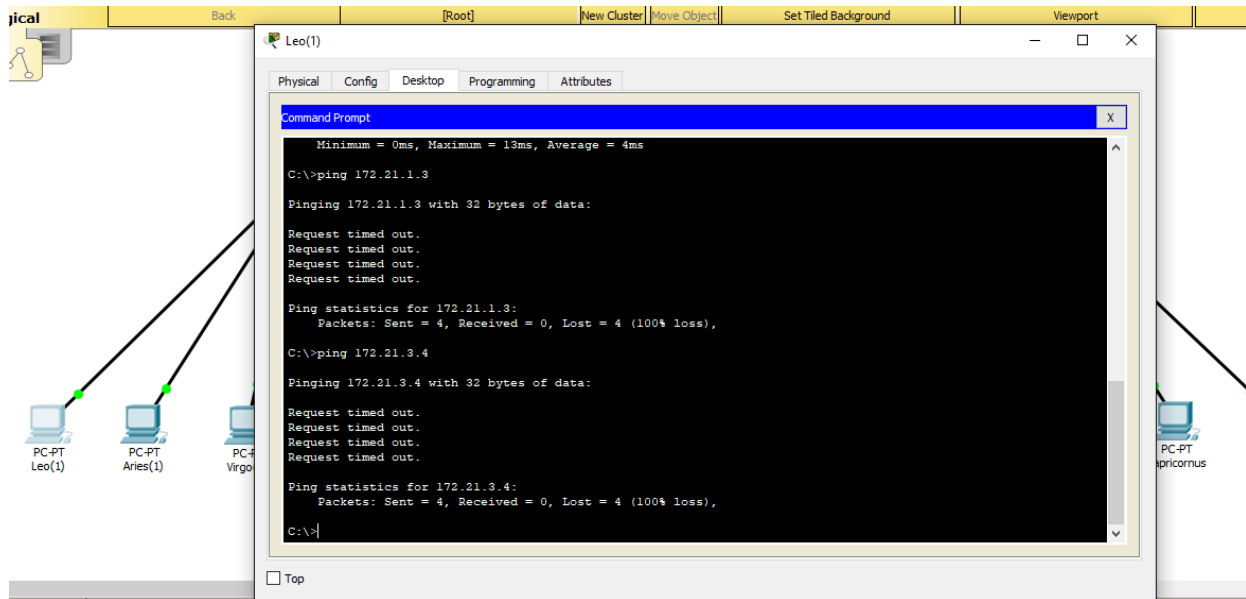




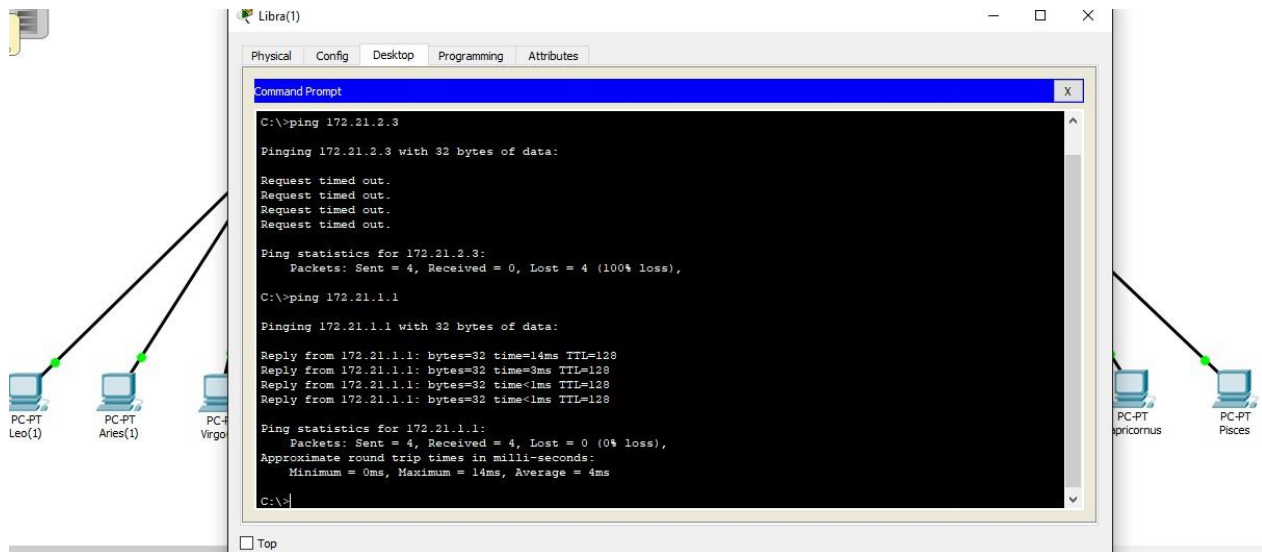


Ping Leo ke Aries, Ping Leo ke Aquarius, Ping Leo ke Pisces





Ping Libra ke Cancer dan Ping Libra ke Leo



Tugas 12A.

Ping Leo → Aries : Reply, karena masih dalam satu vlan

Ping Leo → Aquarius : Timed Out, karena vlan antara leo dengan aquarius berbeda

Ping Leo → Pisces : Timed Out, karena vlan antara leo dengan pisces itu berbeda

Ping Libra → Cancer : Timed Out, karena perbedaan vlan antara libra dengan cancer

Ping Libra → Leo : Reply, karena persamaan vlan antara libra dengan leo, masih dalam satu vlan