

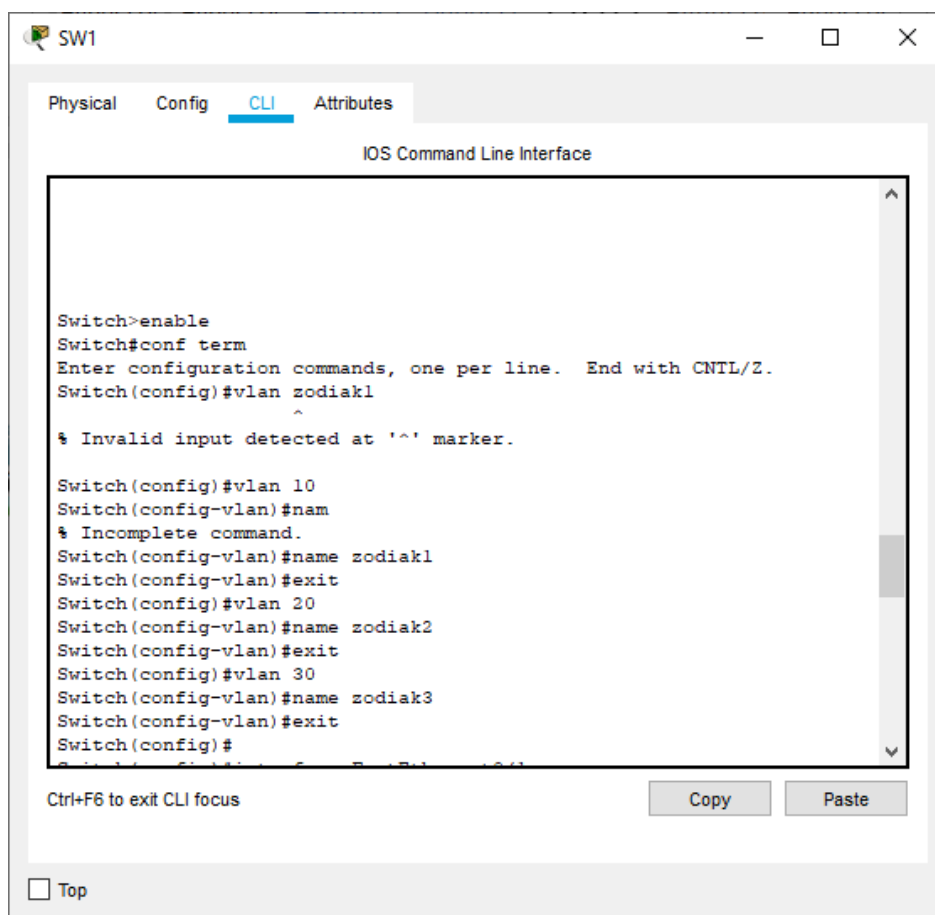
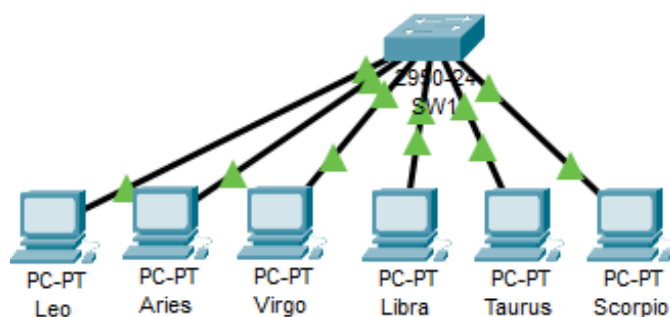
## ***Tugas Praktikum Jaringan komputer Modul 4***

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**Nim** : L200180155

**Kelas** : D

### 1. Kegiatan 1. Topologi1



SW1

Physical honfig ?LI Attributes

IOSCommandLineInterface

```
Swicch{con*ig)#incerface FastEthernet•3/1
Swicch{conSig-iS)#swizchporz mofe access
Switch{ccnSig-iS)#switchpcrt access vlan1•J

$ Invalid inpuc iececced ac "" marker.

Switch{ccnEig-iE)#
Swicch$
$SYS-9-CJNFIG_I: ConSiguref 2rom console by console
'Z
Switch#
Swicch#conSigure cersñnal
inter ccnsiguration cceonarfs, cne per line. ind with CNIL/Z.
Switch{ccnEig)ginterface Fast=thernet•3/1
Swicch conSig-iS)#
Switch{ccnSig-iS)#exit
Switch{ccnSig)#interSace FastZthernet•3./1
Switch{ccnEig-iE)gswitchpcrt mcde access
Swicch conSig-iS)#swizchporz access vlanlo

S Invalid inputdetectedat 'marker.

Switch{ccnSig-iS)#switchpcrt access vlan 13
Switch{ccnEig-iE)#
Switch{ccnEig-iE)#exit
```

Ctrl+F6toexitCLIfocus Copy Paste

@ Top

SW1

Physical honfig ?LI Attributes

IOSCommandLineInterface

```
Switch{ccnEig)#interEace Fast=thernet•3./4
Switch{ccnEig-iE)#switchpcrt access vlan 1•3
Switch{ccn*ig-i*)gswitchpcrc mcde access
Swicch conSig-iS)#swizchporc access vlan 10
Swicch conSig-iS)#eniz
Switch{ccnSig)#interSace Fastithernet•1/m
Switch{ccnSig-iS)#switchpcrt mcde access
Switch{ccnSig-iS)#switchpcrt access vlan :L3
Switch{ccnEig-iE)ginter?ace Fast=thernet•3/6
Switch{ccnEig-iE)gswitchpcrt mcde access
Swicch conSig-iS)#swizchporc access vlan o0
Swicch conSig-iS)#eniz
Swicch{conSig)##inlerSace Fascichernet1'3./3

t Invalid input detected at ' ' marker.

Switch{ccnEig)#interEace Fast=thernet'3./3
Switch{con*ig-i*)#switchporc mcde access
Swicch conSig-iS)#swizchporc access vlan 3'3
Swicch conSig-iS)#incerSace Fasc=zherne'3/f
Switch{ccnSig-iS)#switchpcrt mcde access
Switch{ccnSig-iS)#switchpcrt access vlan 3'3
Switch{ccniig-ii)#exit
Switch{ccnEig)#
```

Ctrl+F6toexitCLIfocus Gnpv Paste

## Tugas 6A:

SW1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch#show vlan brief
```

VLAN	Name	Status	Ports
1	default	active	Fa0/7, 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	

```
Switch#show vlan id 2
VLAN id 2 not found in current VLAN database
Switch#show vlan id 10
```

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

SW1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
VLAN id 2 not found in current VLAN database
Switch#show vlan id 10
```

VLAN	Name	Status	Ports
10	zodiak1	active	Fa0/1, Fa0/4

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

```
Switch#show vlan id 20
```

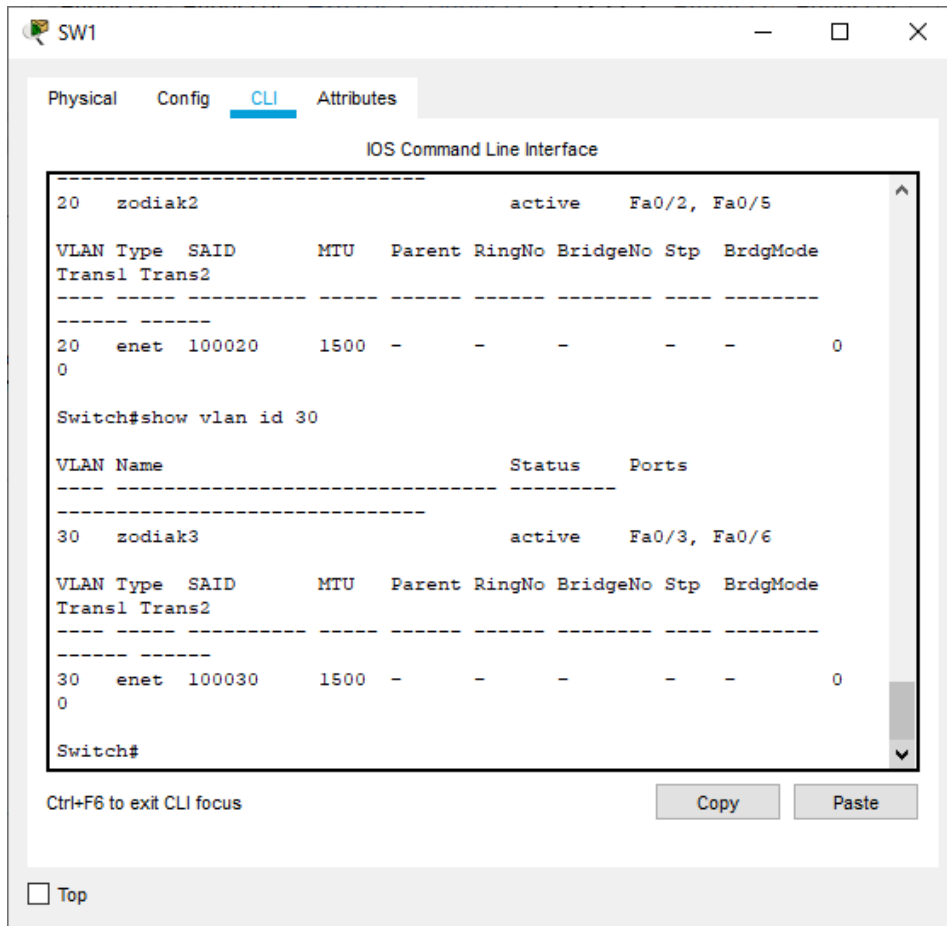
VLAN	Name	Status	Ports
20	zodiak2	active	Fa0/2, Fa0/5

VLAN Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
Trans1	Trans2						

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

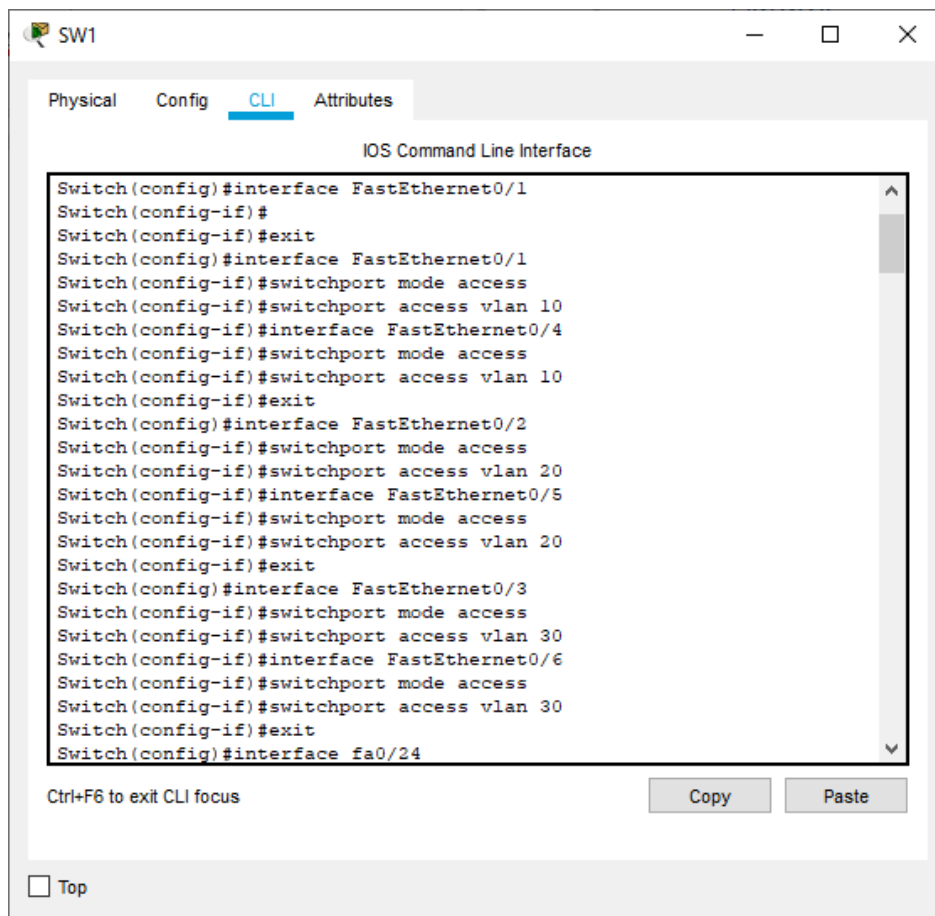
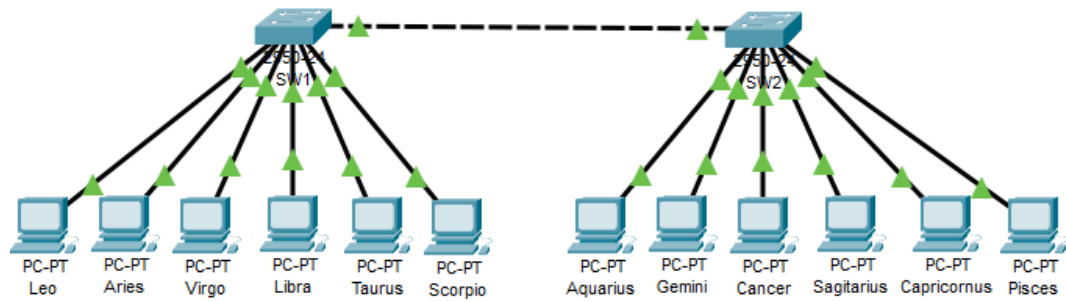


No	Variable	Nilai
1.	Nomor VLAN	10
2.	Nama VLAN	zodiak1
3.	Port	Fa0/1, Fa0/4
4.	Status	active
No	Variable	Nilai
1.	Nomor VLAN	20
2.	Nama VLAN	zodiak2
3.	Port	Fa0/1, Fa0/4
4.	Status	active
No	Variable	Nilai
1.	Nomor VLAN	30
2.	Nama VLAN	zodiak3
3.	Port	Fa0/1, Fa0/4
4.	Status	active

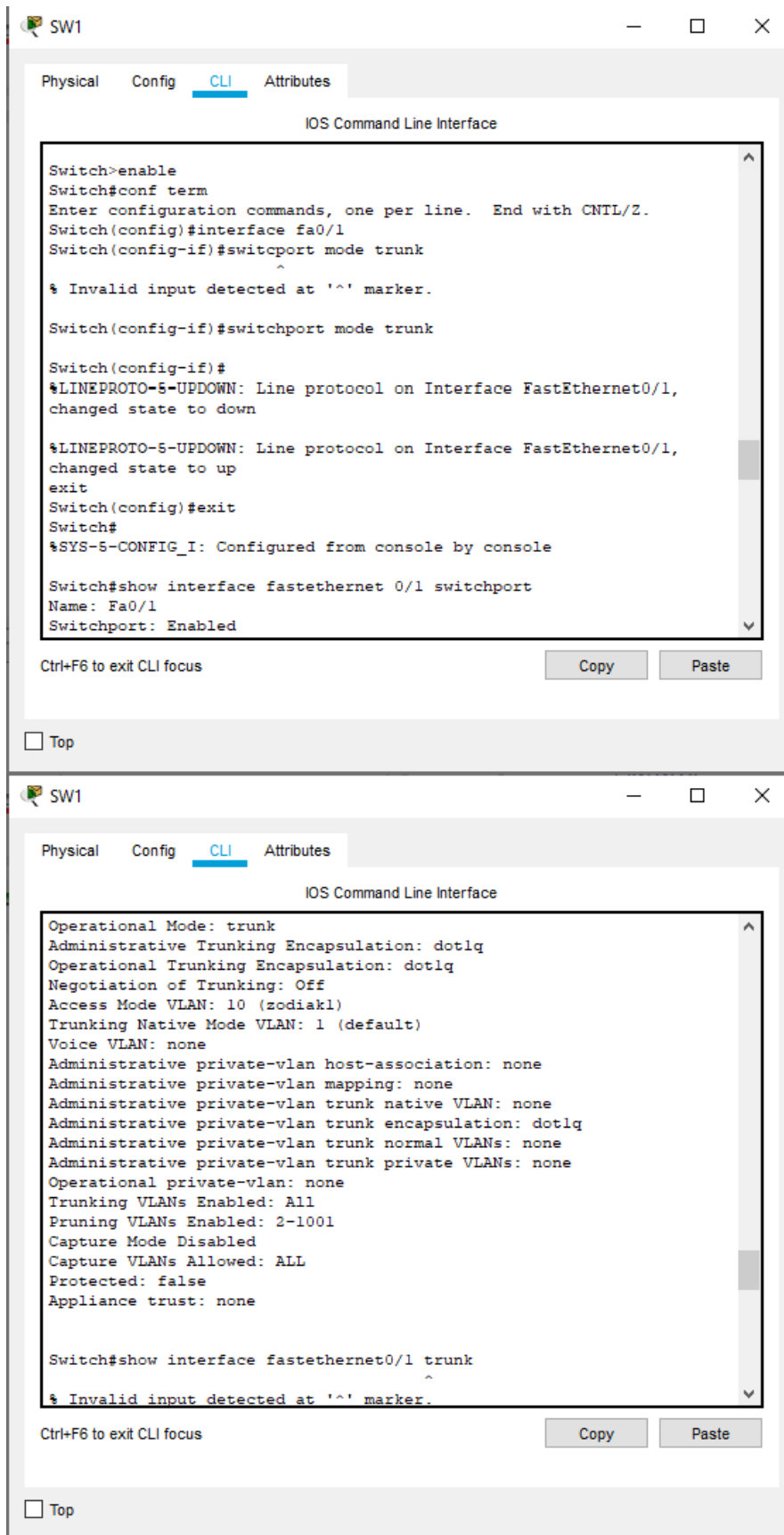
#### Tugas 6B:

Untuk vlan yang ber-id kan 10, 20, dan 30 memiliki nama VLAN, port yang terhubung dan juga status dari VLAN aktif. Sedangkan untuk VLAN ber id 2,3,4 tidak memiliki nama VLAN, port yang terhubung, dan status.

## 2. Kegiatan 2. Topologi2



## Tugas 7A:



The image shows two screenshots of a network switch configuration interface, likely from a Cisco Packet Tracer simulation. The interface has tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, showing the IOS Command Line Interface.

**Top Screenshot:**

```
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fa0/1
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport mode trunk
Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to up
exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show interface fastethernet 0/1 switchport
Name: Fa0/1
Switchport: Enabled
```

Below the CLI window, there is a "Ctrl+F6 to exit CLI focus" message and "Copy" and "Paste" buttons.

**Bottom Screenshot:**

```
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: Off
Access Mode VLAN: 10 (zodiak1)
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

Switch#show interface fastethernet0/1 trunk
Switch#
% Invalid input detected at '^' marker.
```

Similar to the top screenshot, there is a "Ctrl+F6 to exit CLI focus" message and "Copy" and "Paste" buttons at the bottom.

## IOSCommandLineInterface

Switch#shcw vlan

VLAN Name	Status	Ports
1 default	active	Fa0/7, Fa0/8, Fa0/9,
Fa'3./1'3		Fa'3./11, Fa'3./1S,,
Fa'3/13, Fa'J/14		Fa'J/19, Fa'3/1é,
Fa'3./1z, Fa'Jj18		Fa'3/1S, Fa'3/'=3,
Fa'3./21, Fa'3./==		Fa'J/'3, Fa'3/'4
1'3 zc:Jiak1	active	FaO/4
= '3 zc:Jiak=	active	Fa'Jjx, Fa'Jj9
3'3 zcdial:3	active	Fa'J/3, Fa'J/?
1'3'3= *idi-default	active	
1'3'33zoDen-ring-de*aulc	active	
1'3'34 Sidinet-default	active	
1'3'3?trnet-default	active	

VLAN lype ShI3 tIU la z ens ll ngNc Bz1 4gelfc Szp Bz JgNc4e  
Iransl Iranso

Ctrl+F6toexitDLIfacus

Copy

Paste

[@ Top](#)

## IOSCommandLineInterface

3'3 enel 1'3'J'33'3	1500	0
1002 fddi 101002	1500	0
1'3'34Sdnet1'31'304	1500	ieee 0
1'3'3ozrnecl'31'3'J9	1500	ibm 0

VLAN lype ShI3 MTU Parent RingNo BridgeNo Stp BrdgMode  
Iransl Irans=

ñemcte SPAN VLANs

Primary Secondary lype Ports

Swizch#

Ctrl+F6toexitDLIfacus

Copy

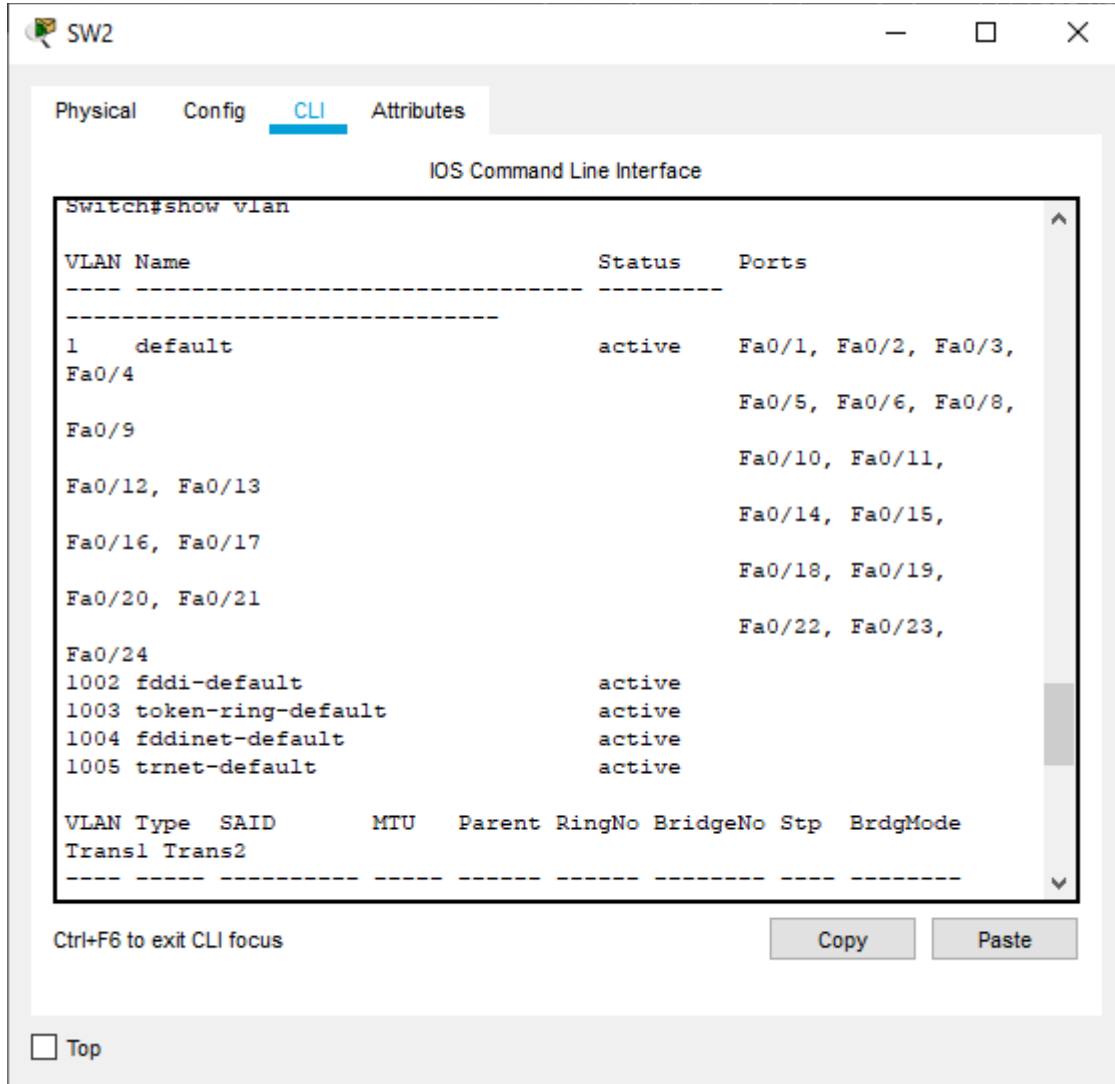
Paste

[@ Top](#)

### Tugas 8A:

Mengapa PC pisces yang berada di switch 2 bisa menerima status “reply” dari PC leo yang berada di switch 1. Karena switch 1 telah memiliki trunking yang bisa menghubungkan trafik VLANnya dengan VLAN di switch lain.

### Tugas 10A:



The screenshot shows a network switch configuration window titled "SW2". The "CLI" tab is selected, displaying the "IOS Command Line Interface". The command "Switch#show vlan" has been executed, resulting in a table of VLANs. The table has three columns: "VLAN Name", "Status", and "Ports". The first section lists VLAN 1 (default) as active, with ports Fa0/1 through Fa0/24. The second section lists VLANs 1002 (fddi-default), 1003 (token-ring-default), 1004 (fddinet-default), and 1005 (trnet-default), all as active. Below this is a header for a detailed table with columns: "VLAN Type", "SAID", "MTU", "Parent", "RingNo", "BridgeNo", "Stp", and "BrdgMode". The window also includes a "Ctrl+F6 to exit CLI focus" message, "Copy" and "Paste" buttons, and a "Top" link.

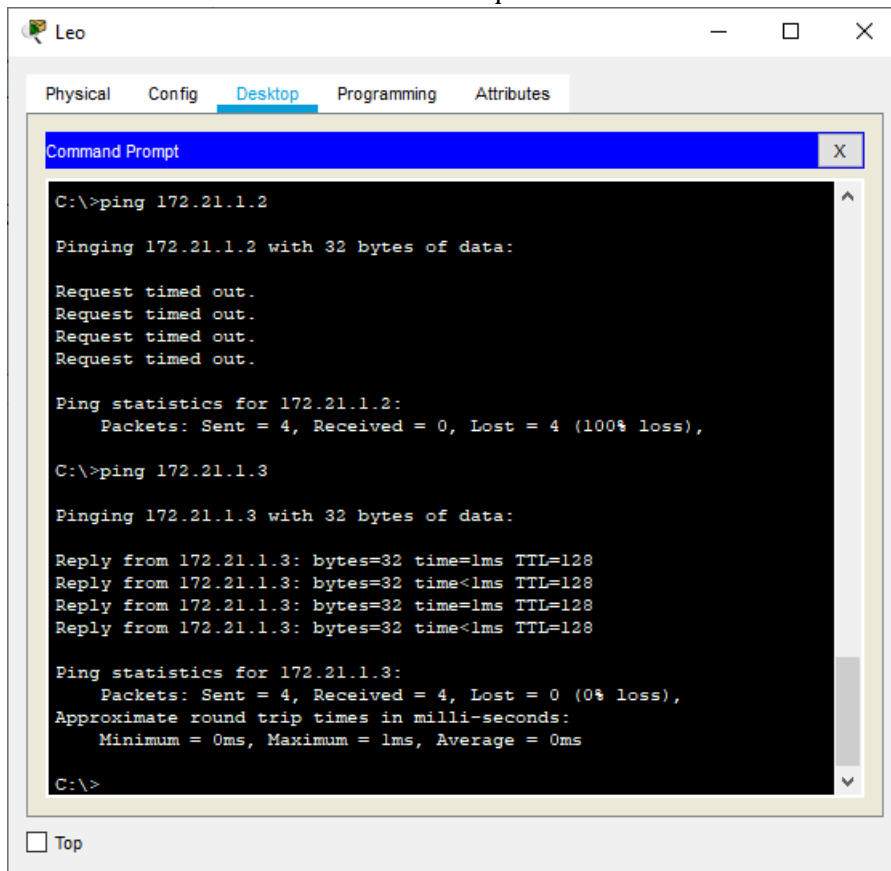
VLAN Name	Status	Ports
1 default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4, Fa0/5, Fa0/6, Fa0/8, Fa0/9, Fa0/10, Fa0/11, Fa0/12, Fa0/13, Fa0/14, Fa0/15, Fa0/16, Fa0/17, Fa0/18, Fa0/19, Fa0/20, Fa0/21, Fa0/22, Fa0/23, Fa0/24
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active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

VLAN Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
Trans1	Trans2						

Port pada fastethernet 0/7 trunking dengan switch 1



Tugas 12A:  
PC Leo ke PC Aries dan PC Leo ke PC Aquarius



The screenshot shows a Leo network simulator window with the 'Desktop' tab selected. A Command Prompt window is open, displaying the results of two ping commands. The first command is 'ping 172.21.1.2', which results in four 'Request timed out.' messages and a 100% loss of packets. The second command is 'ping 172.21.1.3', which results in four successful replies with a time of 1ms and a TTL of 128, and a 0% loss of packets.

```
C:\>ping 172.21.1.2

Pinging 172.21.1.2 with 32 bytes of data:

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

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.1.3

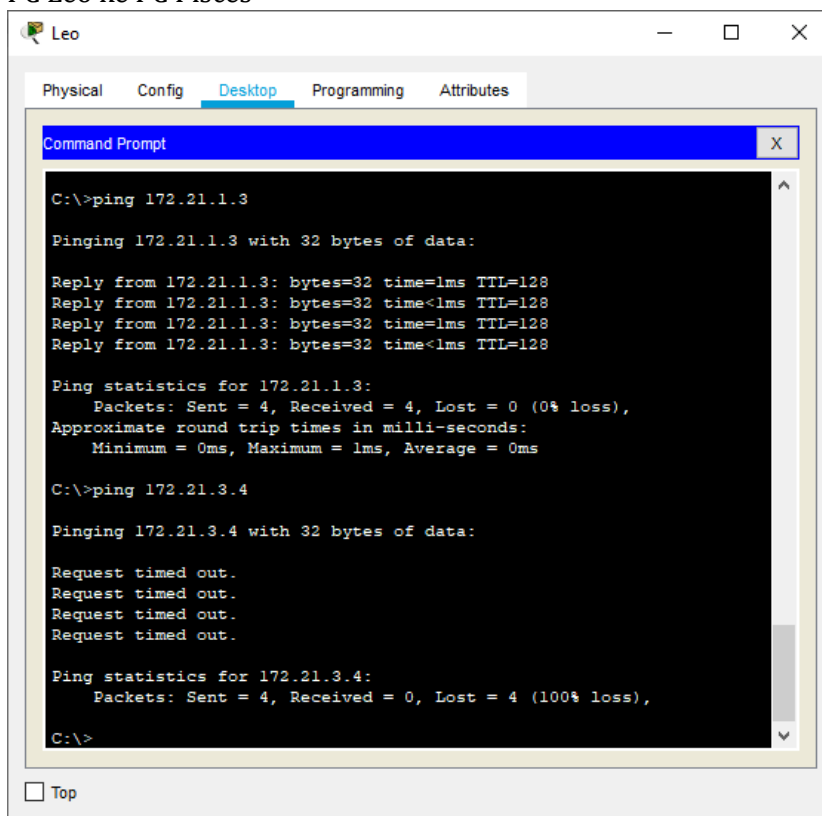
Pinging 172.21.1.3 with 32 bytes of data:

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

C:\>
```

PC Leo ke PC Pisces



The screenshot shows a Leo network simulator window with the 'Desktop' tab selected. A Command Prompt window is open, displaying the results of two ping commands. The first command is 'ping 172.21.1.3', which results in four successful replies with a time of 1ms and a TTL of 128, and a 0% loss of packets. The second command is 'ping 172.21.3.4', which results in four 'Request timed out.' messages and a 100% loss of packets.

```
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

C:\>ping 172.21.3.4

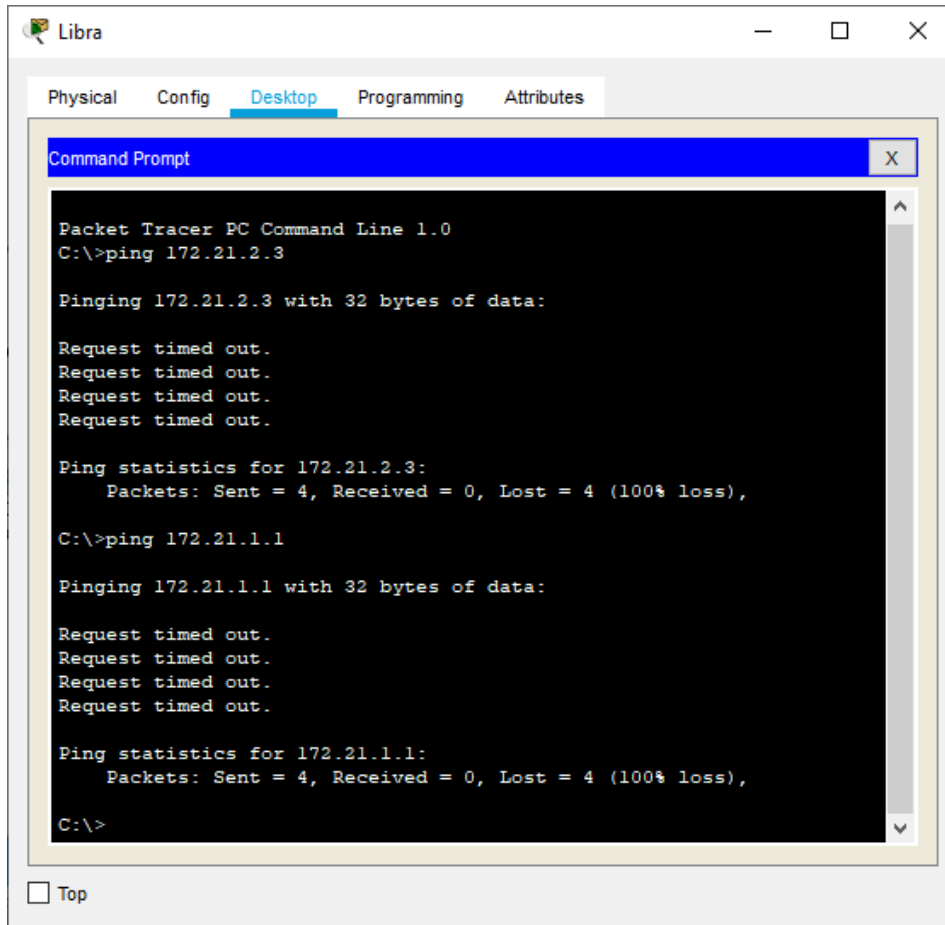
Pinging 172.21.3.4 with 32 bytes of data:

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),

C:\>
```

PC Libra ke PC Cancer dan PC Libra ke PC Leo



PC Leo dapat berkomunikasi dengan PC Aries karena mempunyai Vlan yang sama, meski berbeda switch, tapi untuk ke PC Aquarius gagal karena memiliki Vlan yang berbeda.