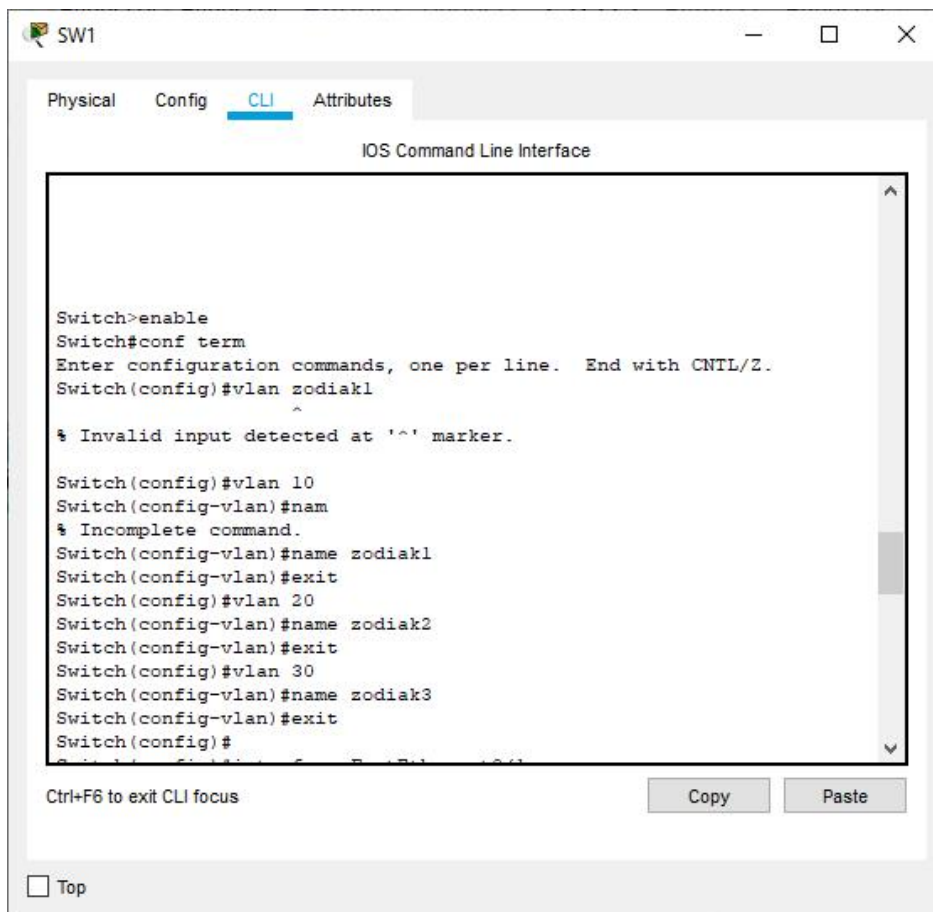
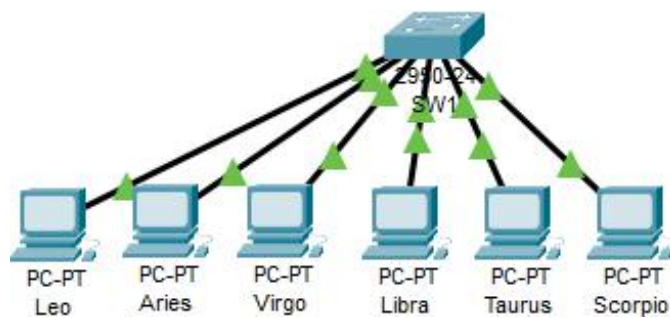


Nama : Dhimas Muhammad .I  
NIM : L200180148  
Kelas : F

## Tugas Praktikum Jaringan komputer Modul 4

### 1. Kegiatan 1. Topologi1



SW1

Physical honfig ?LI Attributes

IOSCommandLineInterface

```
Switch(con*ig)#interface FastEthernet3/1
Switch(ccnSig-iS)#switchport mode access
Switch(ccnSig-iS)#switchport access vlan10

$ Invalid input detected at '^' marker.

Switch(ccnSig-iS)#
Switch$
$SYS-9-CJNFIG-I: ConSiguref 2rom console by
console 'Z
Switch#
Switch#conSigure cersñnal
inter ccnfiguration cceonans, cne per line. ind with CNIL/Z.
Switch(ccnSig-iS)#interface FastEthernet3/1
Switch(ccnSig-iS)#
Switch(ccnSig-iS)#exit
Switch(ccnSig-iS)#interface FastEthernet3/1
Switch(ccnSig-iS)#switchport mode access
Switch(ccnSig-iS)#switchport access vlan10

S Invalid input detected at '^' marker.

Switch(ccnSig-iS)#switchport access vlan 13
Switch(ccnSig-iS)#
Switch(ccnSig-iS)#exit
```

Ctrl+F6toexitCLIfocus Copy Paste

@Top

SW1

Physical honfig ?LI Attributes

IOSCommandLineInterface

```
Switch(ccnSig-iS)#interface FastEthernet3/4
Switch(ccnSig-iS)#switchport access vlan 10
Switch(ccnSig-iS)#switchport mode access
Switch(ccnSig-iS)#switchport access vlan 10
Switch(ccnSig-iS)#eniz
Switch(ccnSig-iS)#interface FastEthernet1/0
Switch(ccnSig-iS)#switchport mode access
Switch(ccnSig-iS)#switchport access vlan 10
Switch(ccnSig-iS)#interface FastEthernet3/6
Switch(ccnSig-iS)#switchport mode access
Switch(ccnSig-iS)#switchport access vlan 10
Switch(ccnSig-iS)#eniz
Switch(ccnSig-iS)#interface FastEthernet1/3/3

t Invalid input detected at '^' marker.

Switch(ccnSig-iS)#interface FastEthernet3/3
Switch(ccnSig-iS)#switchport mode access
Switch(ccnSig-iS)#switchport access vlan 3/3
Switch(ccnSig-iS)#interface FastEthernet3/3
Switch(ccnSig-iS)#switchport mode access
Switch(ccnSig-iS)#switchport access vlan 3/3
Switch(ccnSig-iS)#exit
Switch(ccnSig-iS)#
```

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
10	enet	100010	1500	-	-	-	-	0

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

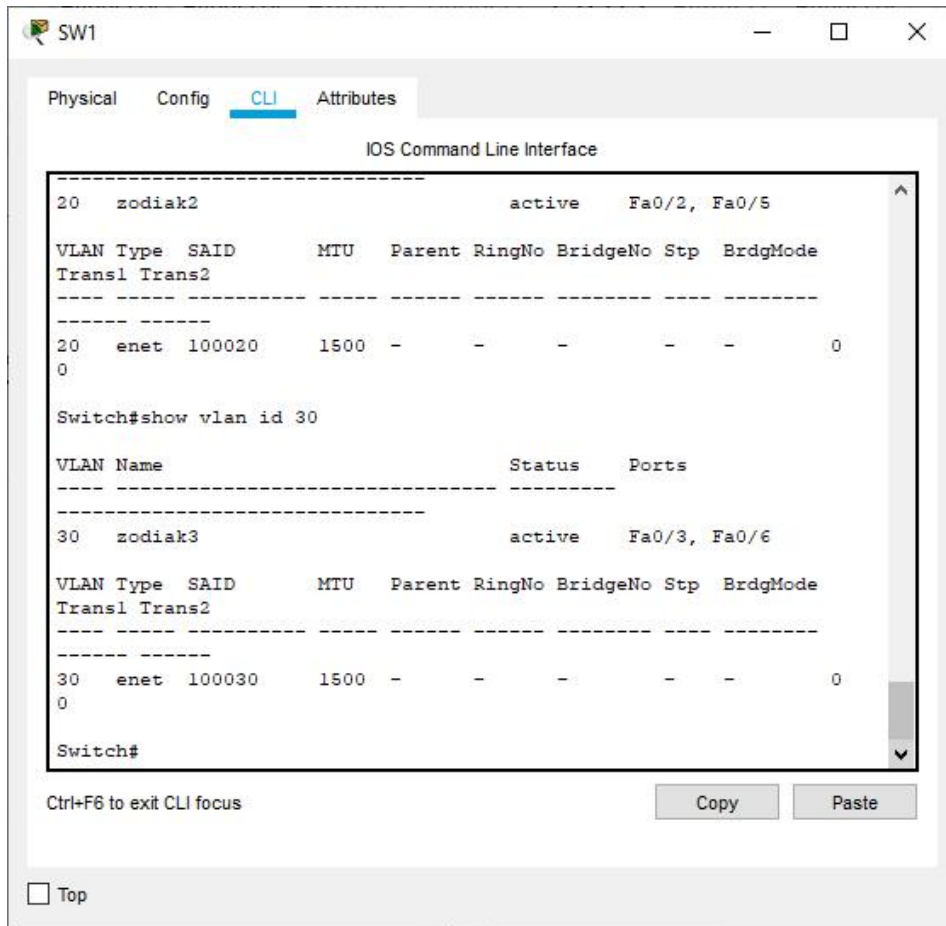
VLAN	Name	Status	Ports
20	zodiak2	active	Fa0/2, Fa0/5

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

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

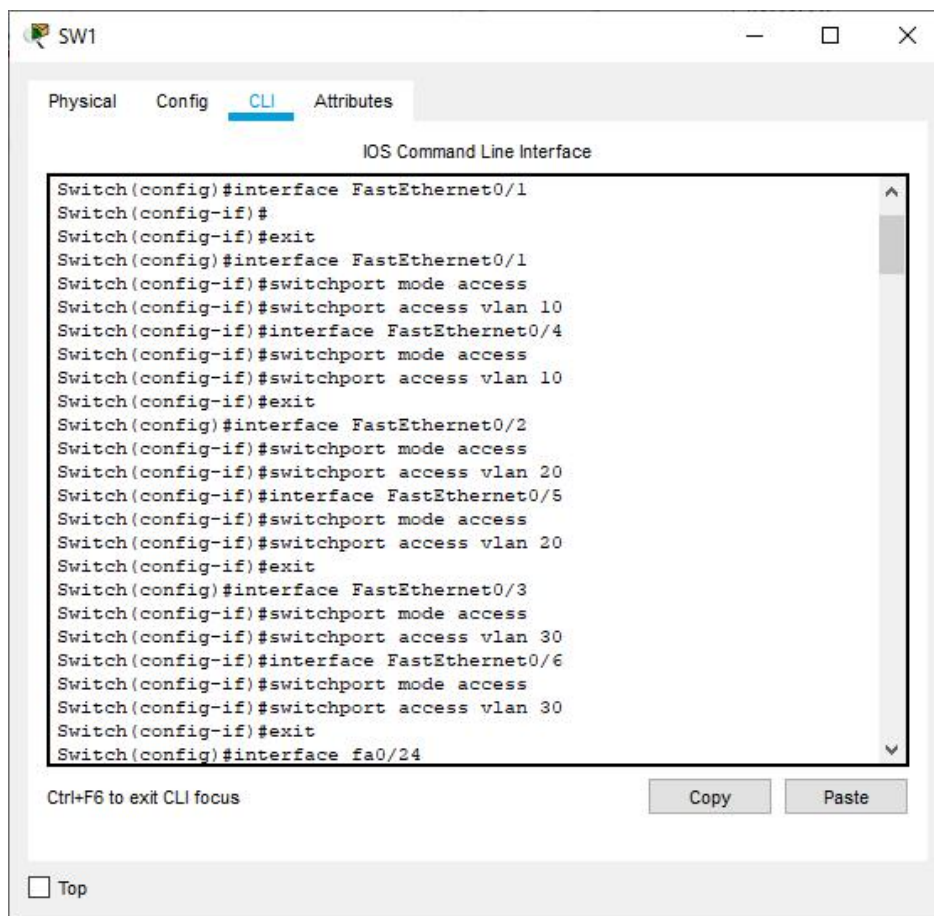
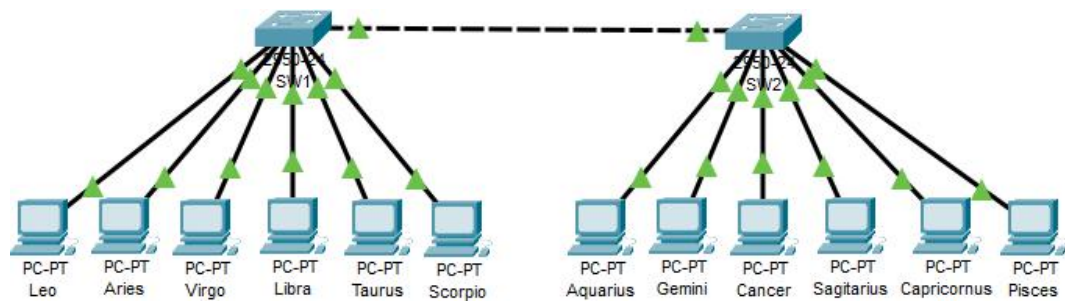


No	Variable	Nilai
1.	Nomor VLAN	10
2.	Nama VLAN	zodiak1
3.	Port	Fa0/1, Fa0/4
4.	Status	active
No	Variable	Nilai
1.	Nomor VLAN	20
2.	Nama VLAN	zodiak2
3.	Port	Fa0/1, Fa0/4
4.	Status	active
No	Variable	Nilai
1.	Nomor VLAN	30
2.	Nama VLAN	zodiak3
3.	Port	Fa0/1, Fa0/4
4.	Status	active

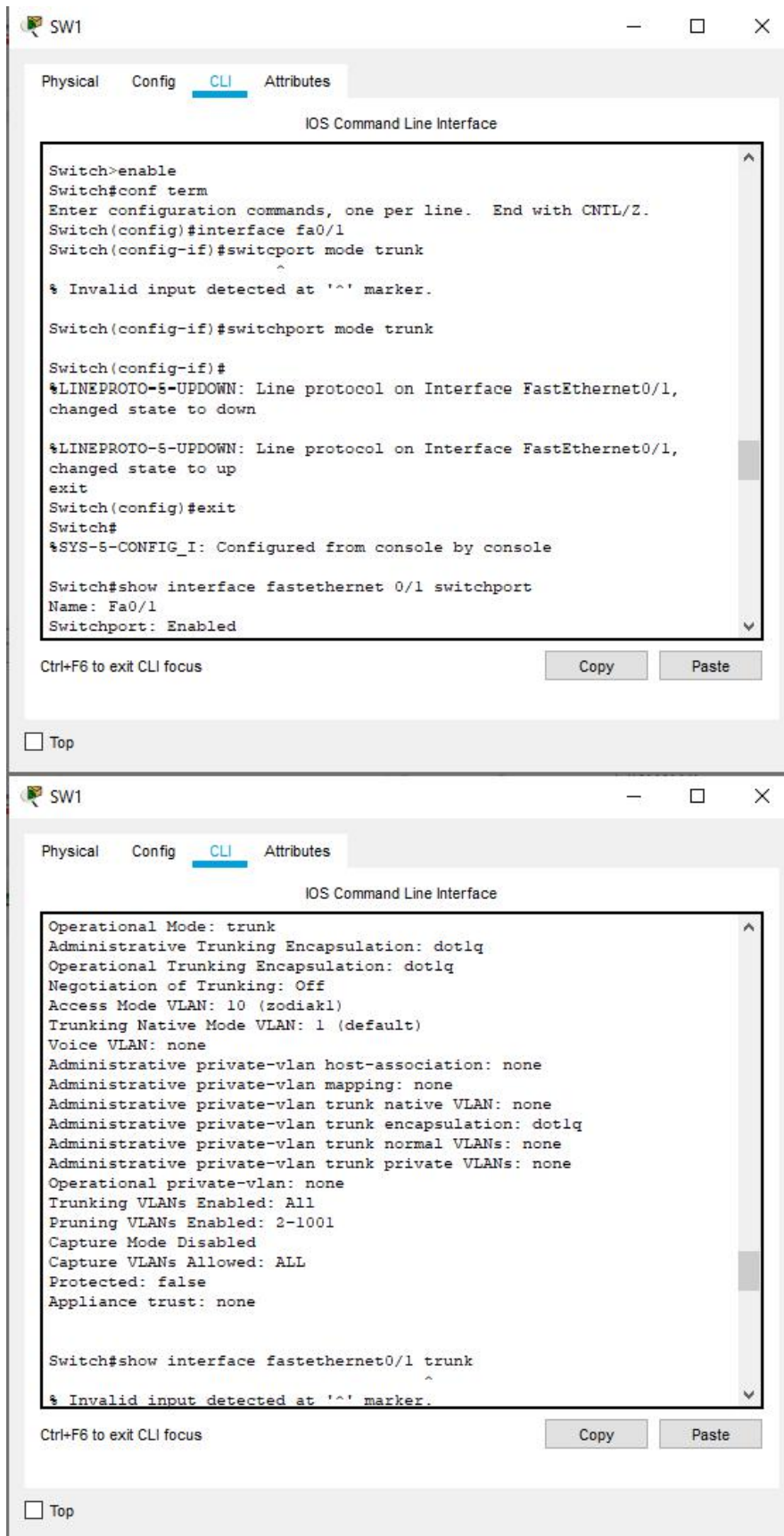
#### Tugas 6B:

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 a Cisco Packet Tracer simulation. The interface is titled "SW1" and has tabs for "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is selected, 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)#^
% Invalid input detected at '^' marker.
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" label and "Copy" and "Paste" buttons. A "Top" button is also visible at the bottom left of the interface.

**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" label and "Copy" and "Paste" buttons below the CLI window, and a "Top" button at the bottom left.

IOSCommandLineInterface

```
Switch#shcw vlan

VLAN Name                Status    Ports

1    default                active    Fa0/7, Fa0/8, Fa0/9,
Fa3./1'3
Fa3/13,FaJ/14
Fa3./1z,FaJj18
Fa3./21,Fa3./==
1'3  zc:Jiak1              active    Fa0/4
='3  zc:Jiak=              active    FaJjx, FaJj9
3'3  zcdial:3              active    FaJ/3, FaJ/?
1'3*3= *idi-default        active
1'333zoDen-ring-de*aulc    active
1'334 Sidinet-default      active
1'33?trnet-default         active

VLAN lype ShI3           tIU   la z ens ll ngNc Bz1 4gelfc Szp   Bz JgNc4e
Transl  Itranso
```

Ctrl+F6toexitDLIfacus Copy Paste

@ Top

IOSCommandLineInterface

```
3'3  enel 1'3J'33'3        1500      0
1002 fddi  101002          1500      0

1'334Sdnet131'304          1500      ieee      0
1'33ozrnecl31'3J9          1500      ibm        0

VLAN lype ShI3           MTU   Parent RingNo BridgeNo Stp  BrgdMode
Transl  Itrans=

nemcte SPAN VLANs

Primary Secondary lype      Ports

Swizch#
```

Ctrl+F6toexitDLIfacus Copy Paste

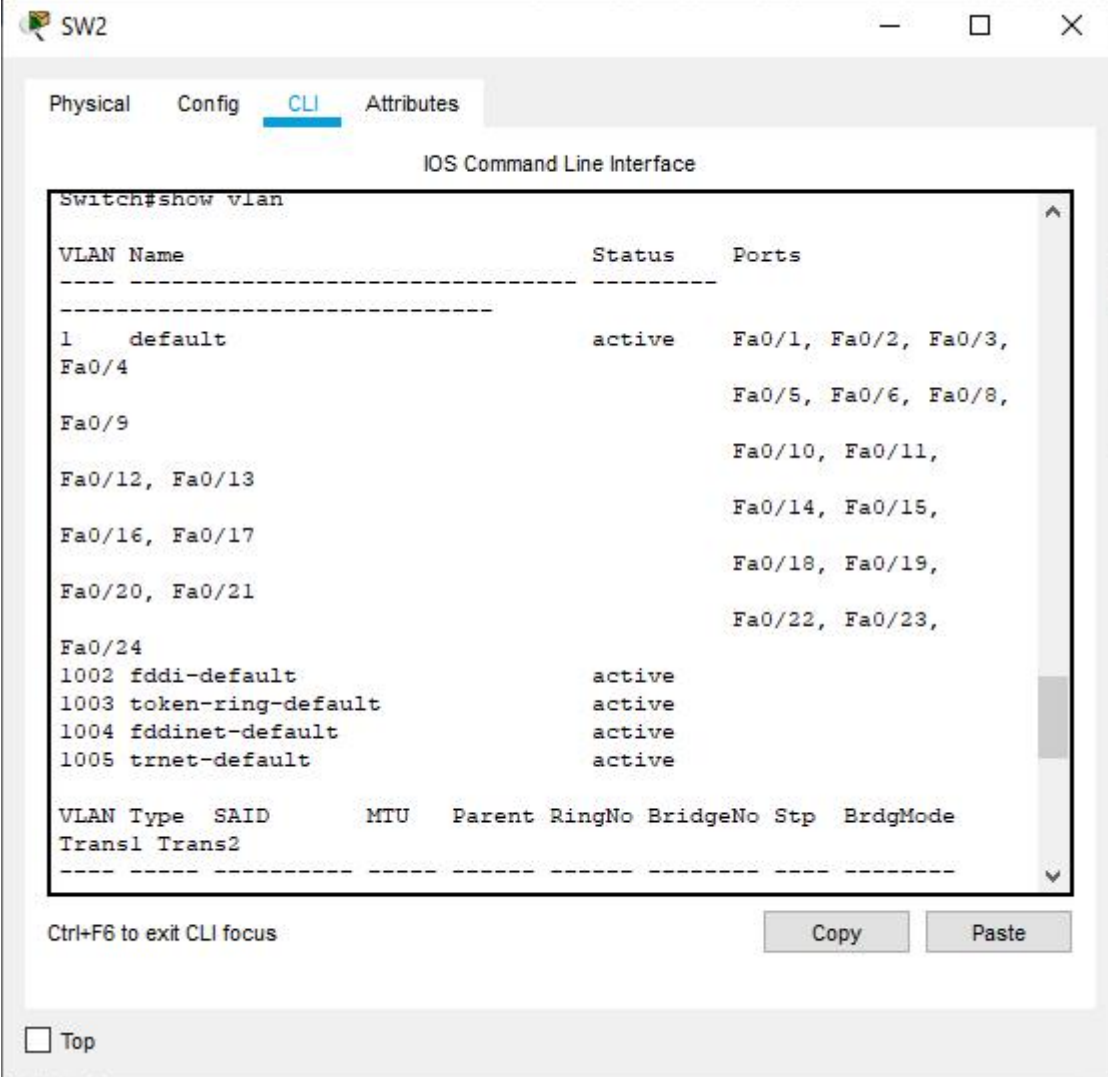
@ Top



### 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 the CLI interface of a switch named SW2. The command 'show vlan' has been executed, displaying a table of VLANs. The table has three columns: VLAN Name, Status, and Ports. The output shows VLAN 1 (default) is active and includes ports Fa0/1 through Fa0/24. Other VLANs (1002-1005) are also active but have no ports listed. Below the table, there is a section for VLAN Type, SAID, MTU, Parent, RingNo, BridgeNo, Stp, and BrdgMode, which is currently empty.

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	

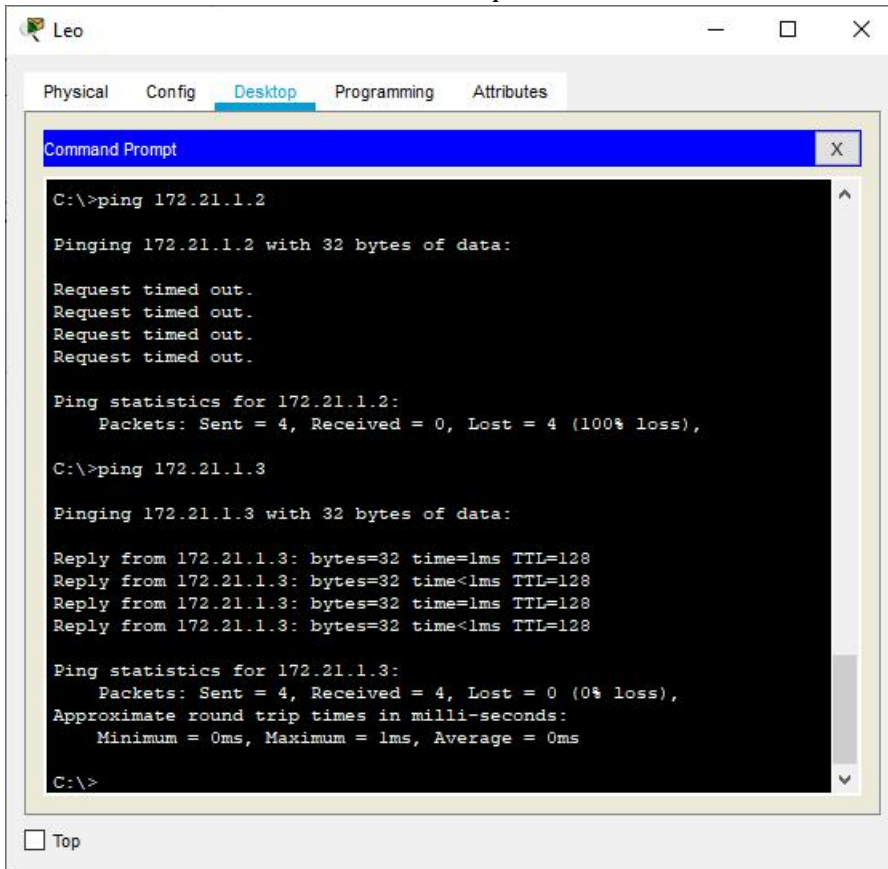
VLAN Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode
Trans1	Trans2						

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 virtual machine window titled "Leo" with tabs for Physical, Config, Desktop, Programming, and Attributes. The "Desktop" tab is active, displaying a Command Prompt window. The Command Prompt shows the results of two ping commands. The first command is `C:\>ping 172.21.1.2`, which results in four "Request timed out." messages and a summary showing 100% loss. The second command is `C:\>ping 172.21.1.3`, which results in four successful replies from 172.21.1.3 with a 0% loss summary.

```
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

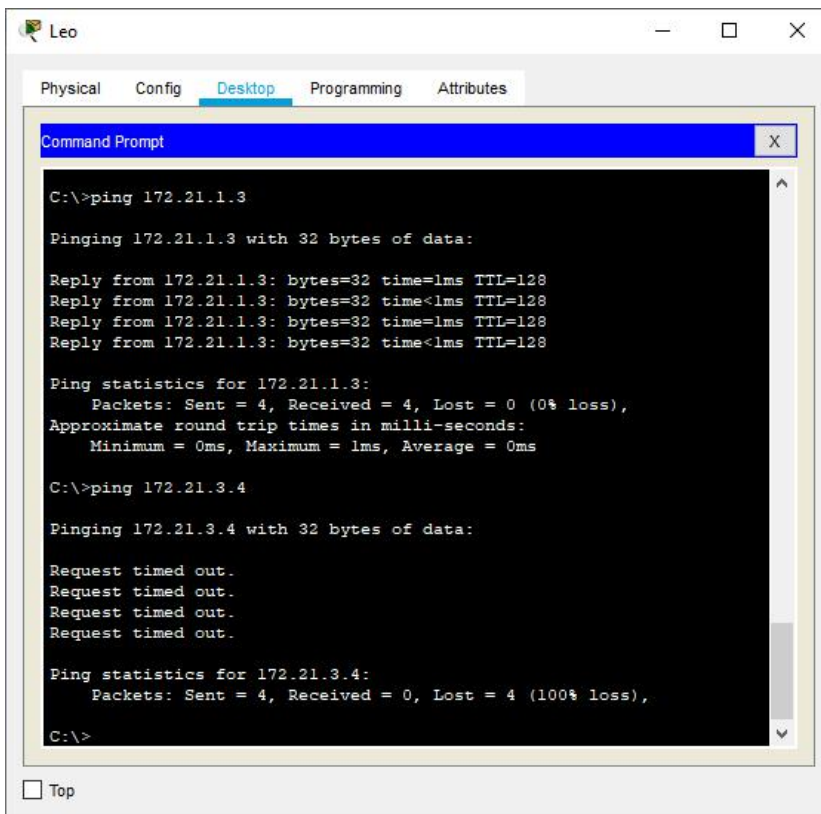
Pinging 172.21.1.3 with 32 bytes of data:

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 virtual machine window titled "Leo" with tabs for Physical, Config, Desktop, Programming, and Attributes. The "Desktop" tab is active, displaying a Command Prompt window. The Command Prompt shows the results of two ping commands. The first command is `C:\>ping 172.21.1.3`, which results in four successful replies from 172.21.1.3 with a 0% loss summary. The second command is `C:\>ping 172.21.3.4`, which results in four "Request timed out." messages and a summary showing 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:\>ping 172.21.3.4

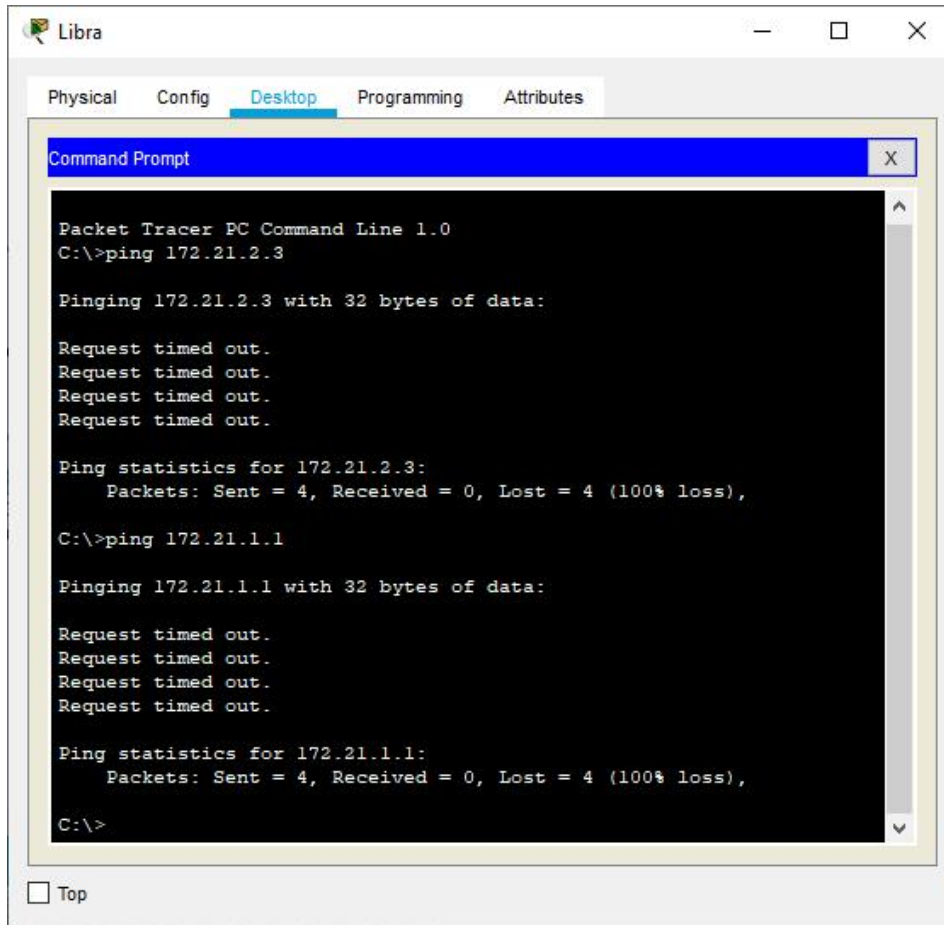
Pinging 172.21.3.4 with 32 bytes of data:

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.