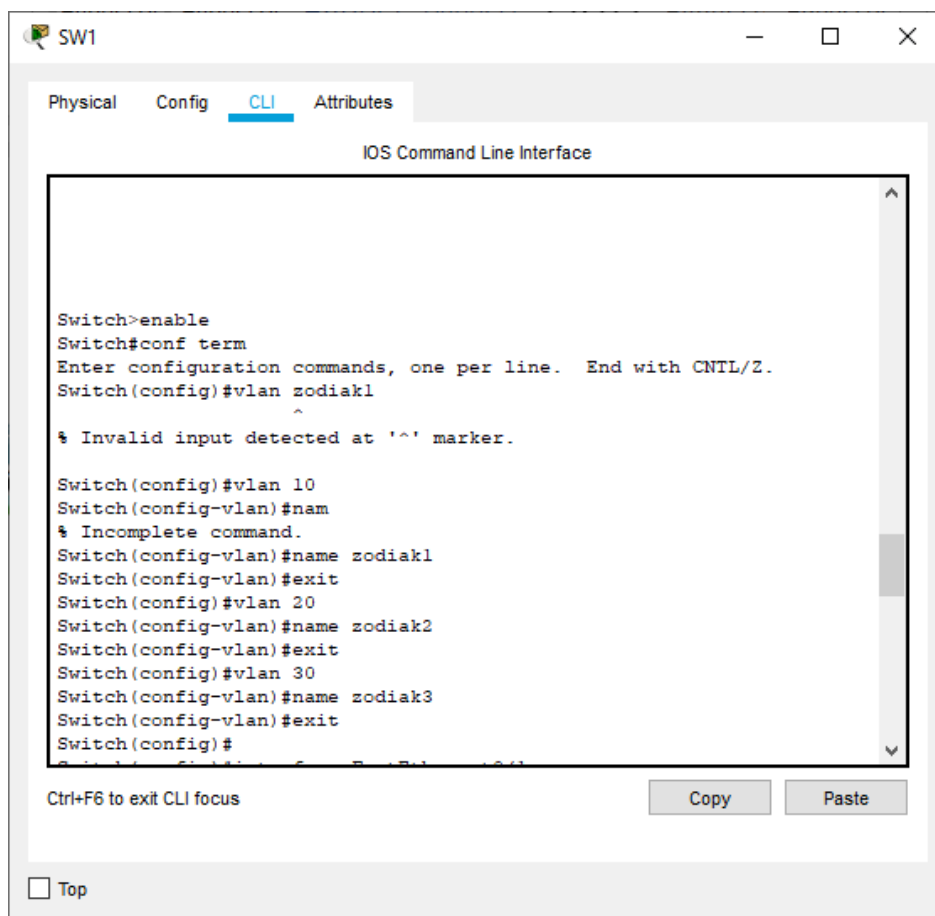
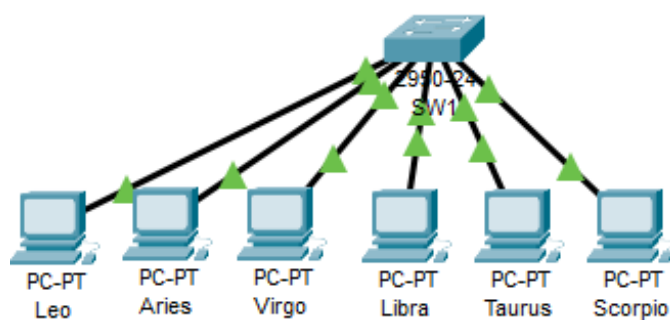


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NIM : L200180192
Kelas : E

Modul 4

Praktikum Jaringan dan Komputer

1. Kegiatan 1. Topologi1



SW1

Physical honfig ?LI Attributes

IOSCommandLineInterface

```
Swicch(con*ig)#inercerface Fasciothernet•3/1
Swicch(conSig-iS)#swizchporz mofe access
Switch(ccnSig-iS)#switchpcrt access vlanl•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)#inter@ace 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 Fascichernel'3./3

t Invalid input detected at ' ' marker.

Switch(ccnEig)#inter@ace Fast=thernet'3./3
Switch(con*ig-i*)#switchporc mcde access
Swicch conSig-iS)#swizchporc access vlan 3'3
Swicch conSig-iS)#inercerSace Fasc=zhernecl'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   BrgdMode
Trans1 Trans2
-----
10   enet  100010   1500   -     -     -     -     -     0
0

Switch#show vlan id 20

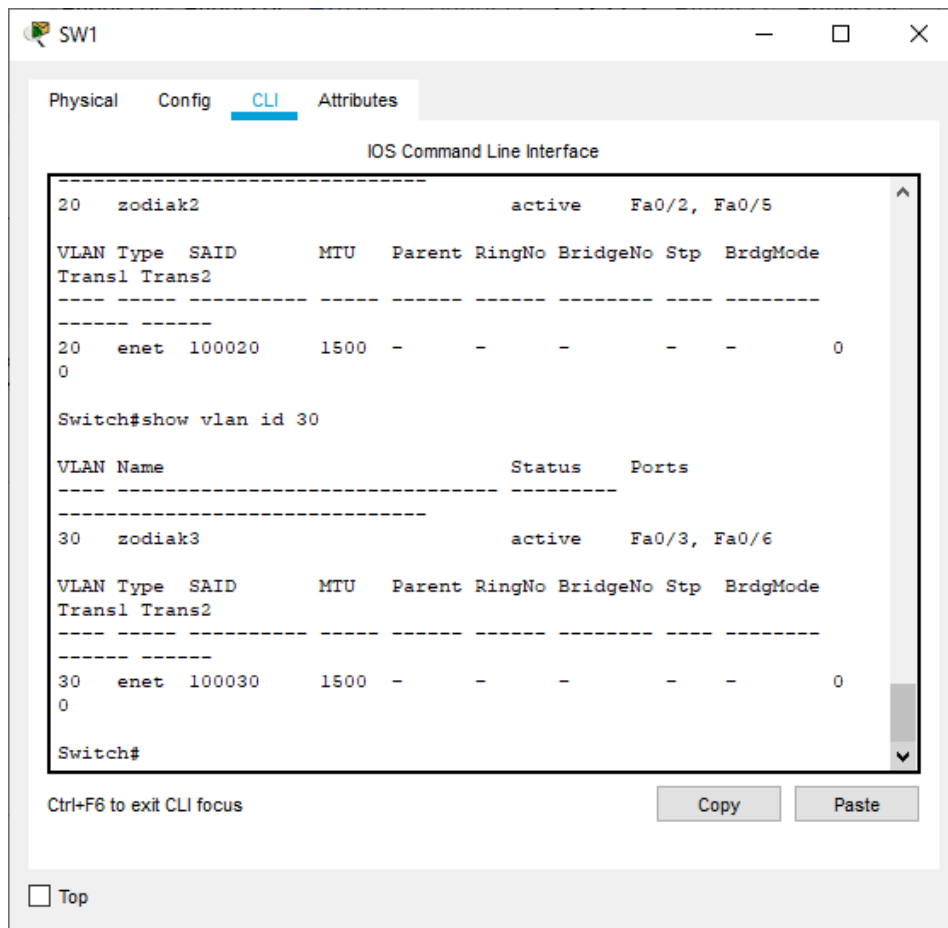
VLAN Name                Status    Ports
-----
20   zodiak2                 active    Fa0/2, Fa0/5

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

Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

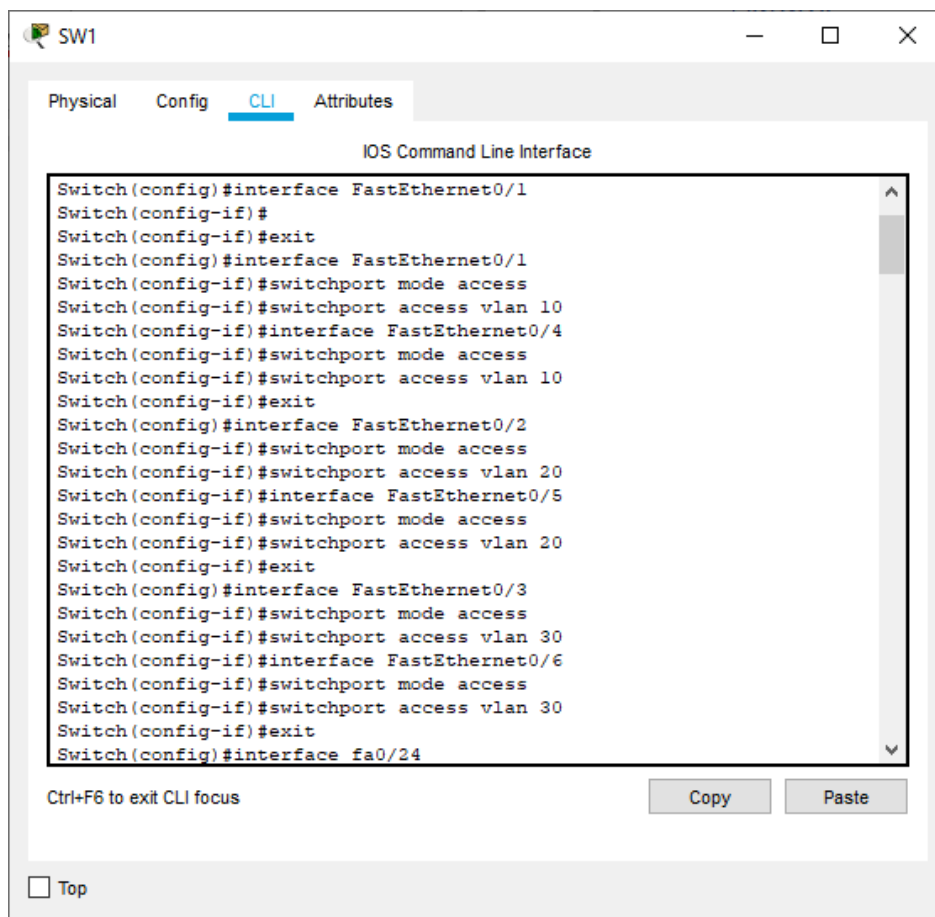
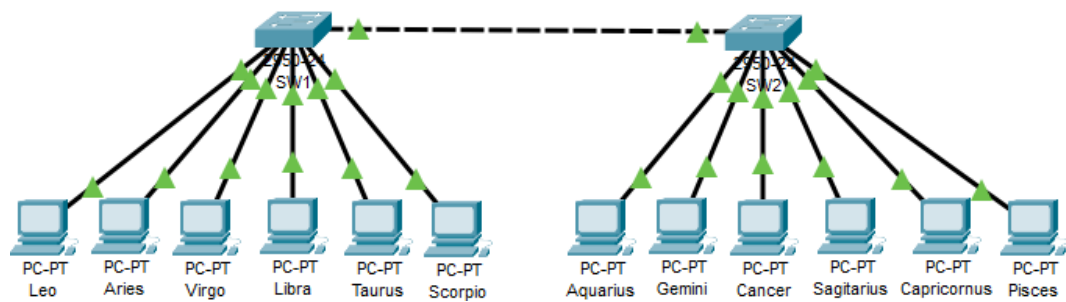


No	Variable	Nilai
1.	Nomor VLAN	10
2.	Nama VLAN	zodiak1
3.	Port	Fa0/1, Fa0/4
4.	Status	active
No	Variable	Nilai
1.	Nomor VLAN	20
2.	Nama VLAN	zodiak2
3.	Port	Fa0/1, Fa0/4
4.	Status	active
No	Variable	Nilai
1.	Nomor VLAN	30
2.	Nama VLAN	zodiak3
3.	Port	Fa0/1, Fa0/4
4.	Status	active

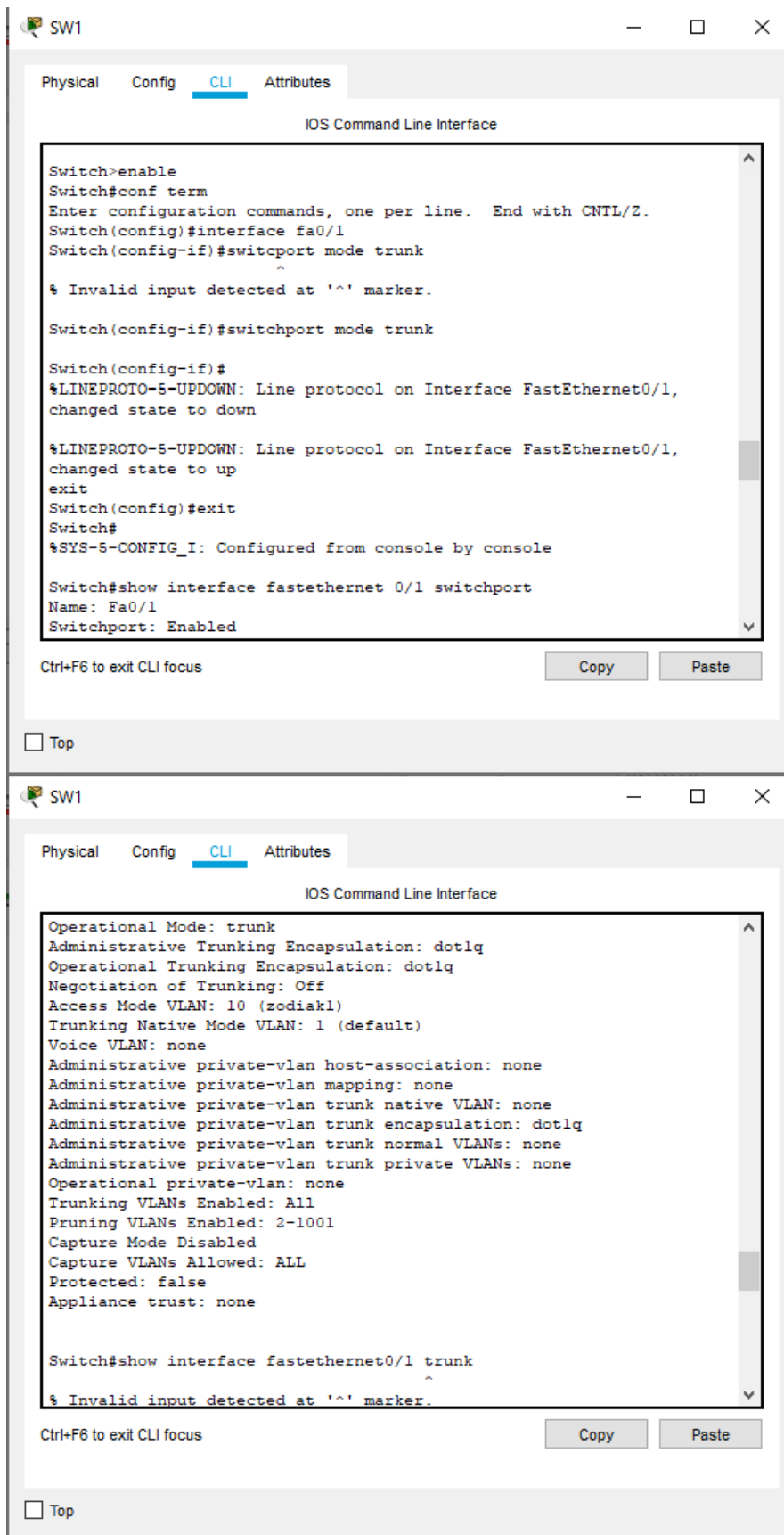
Tugas 6B:

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 displays two screenshots of a network switch's Command Line Interface (CLI) for device SW1. The interface includes tabs for Physical, Config, CLI (selected), and Attributes.

Top Screenshot: Shows the configuration of interface fa0/1 as a trunk port. The commands entered are:

```
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 "Top" button and a "Ctrl+F6 to exit CLI focus" message. Copy and Paste buttons are also present.

Bottom Screenshot: Shows the status of the trunk port configuration. The commands entered are:

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

Similar to the top screenshot, it includes a "Top" button, a "Ctrl+F6 to exit CLI focus" message, and Copy/Paste buttons.

SW1

PhysicalConfig?LIAttributes

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+F6toexitDLIfacusCopyPaste

@ Top

SW1

PhysicalConfig?LIAttributes

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 Iranso

ñemcte SPAN VLANs

Primary Secondary lype Ports

Swizch#

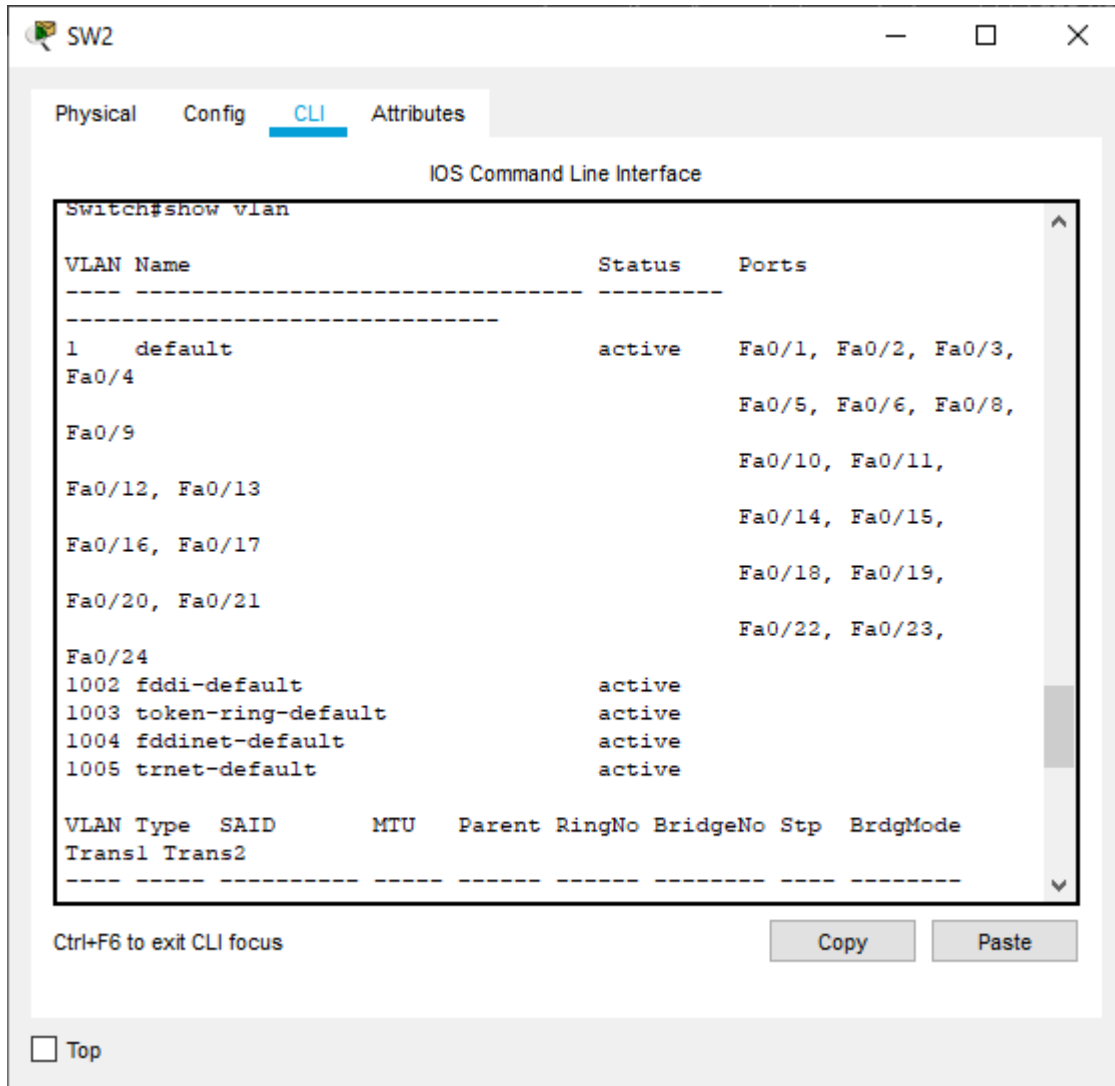
Ctrl+F6toexitDLIfacusCopyPaste

@ 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 mengabungkan 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 VLAN configurations.

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	

Below the table, there is a section for "VLAN Type SAID MTU Parent RingNo BridgeNo Stp BrdgMode Transl Trans2".

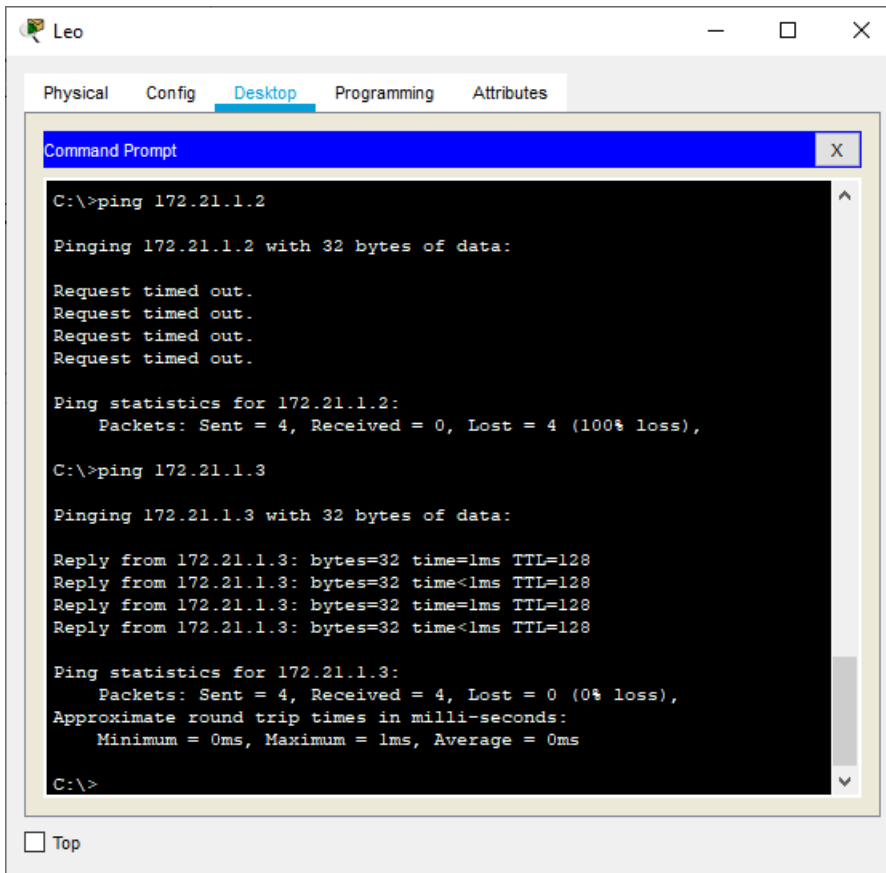
At the bottom of the CLI window, there is a "Ctrl+F6 to exit CLI focus" message and "Copy" and "Paste" buttons.

At the bottom of the window, there is a "Top" button.

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 VM window 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 'ping 172.21.1.2', which results in four 'Request timed out.' messages and a 100% loss. The second command is 'ping 172.21.1.3', which results in four successful replies with 0% loss.

```
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

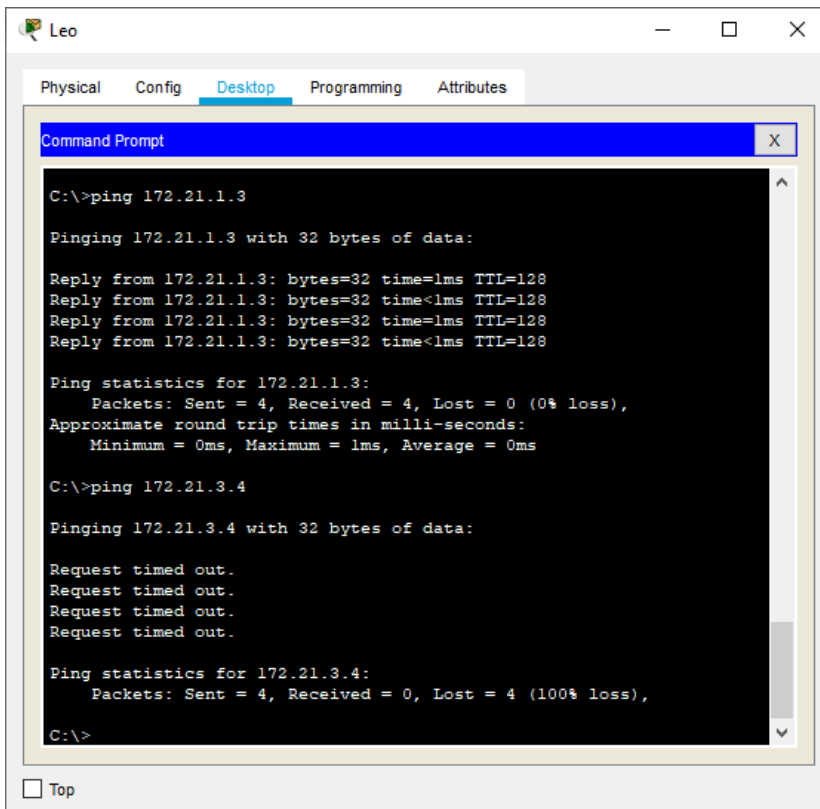
Pinging 172.21.1.3 with 32 bytes of data:

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 VM window 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 'ping 172.21.1.3', which results in four successful replies with 0% loss. The second command is 'ping 172.21.3.4', which results in four 'Request timed out.' messages and a 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

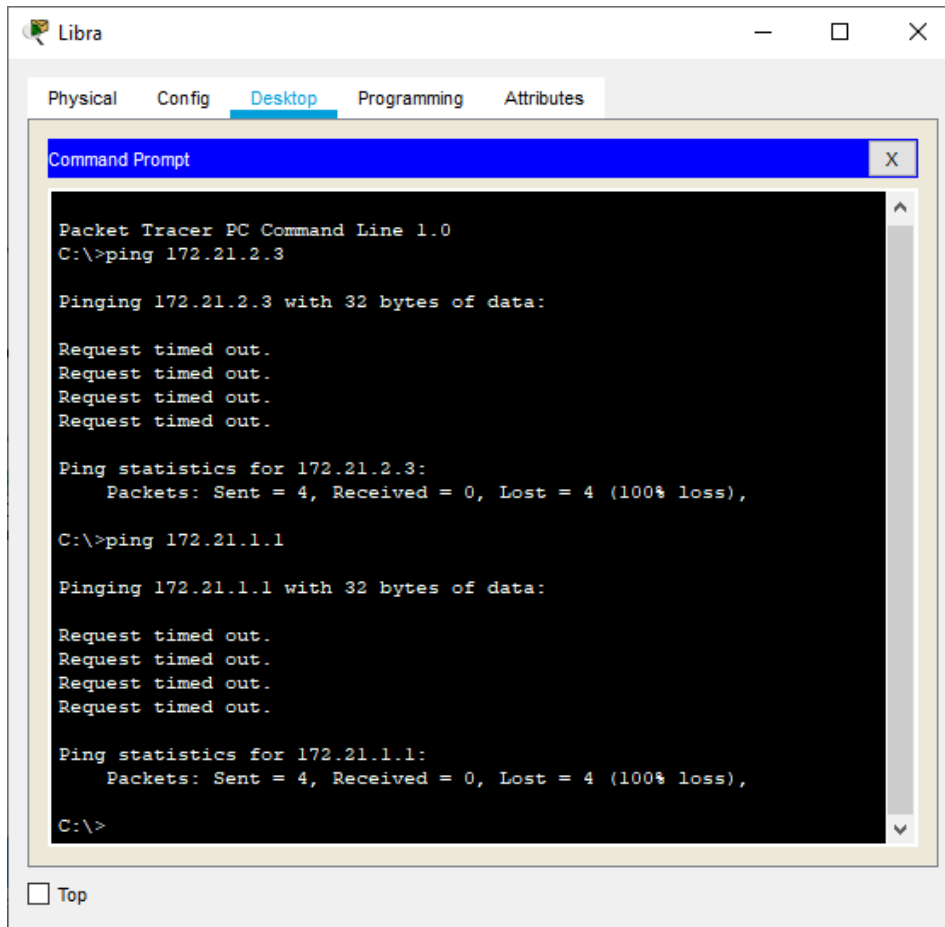
Pinging 172.21.3.4 with 32 bytes of data:

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.