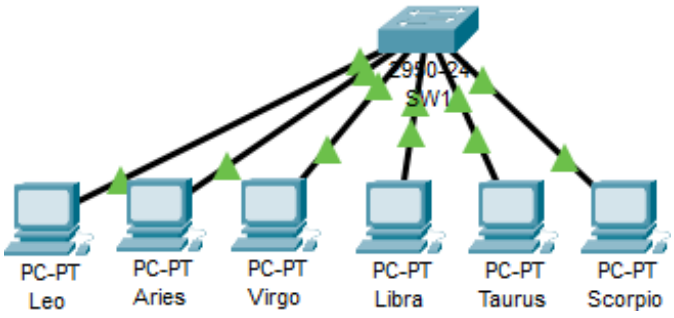
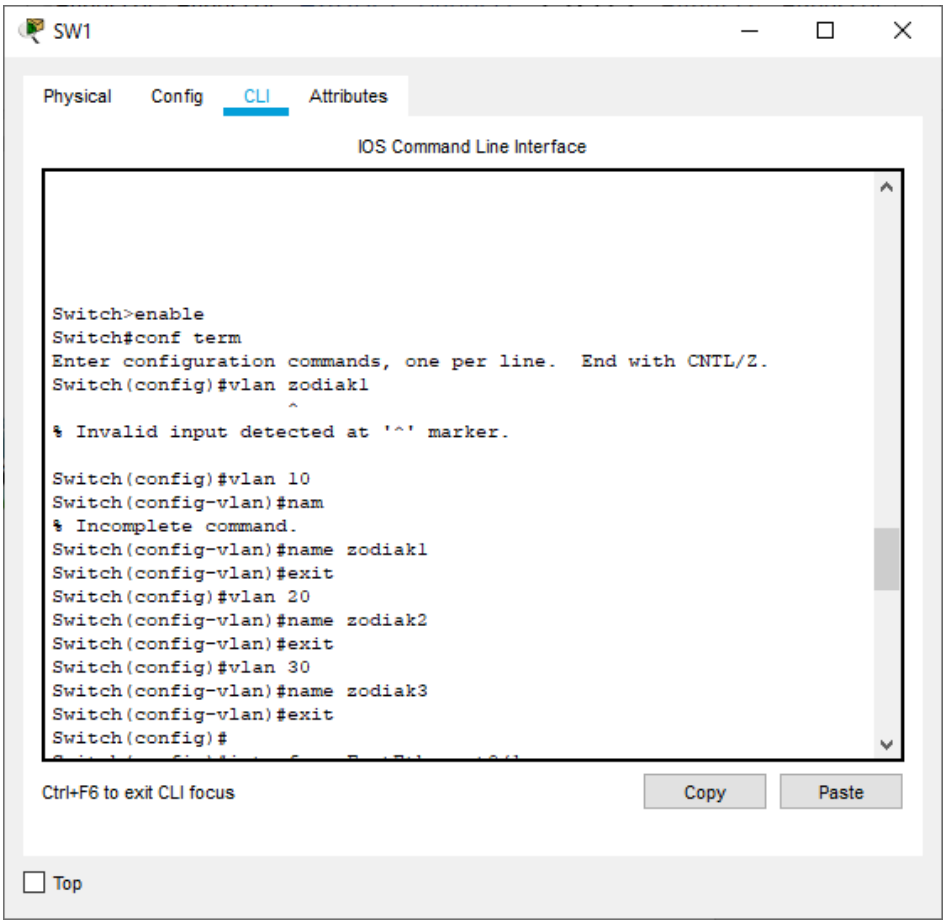
Nama : Muhammad Saiful Mujab
Nim : L200180139
Kelas : D

Jarkom Modul 4

1. Kegiatan 1. Topologi1





SW1

Physical honfig '?LI Attributes

IO5CommandLineInterface

```
Swicch{con*ig)#incerface Fascothernet•3/l
Swicch{conSig-iS)#swizchporz mofe access
Switch{ccnSig-iS)#switchpcrt access vlanl•J

$ Invalid inpuc iececced ac "' marker.

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

S Invalid inputdetectedat       'marker.

Switch{ccnSig-iS)#switchpcrt access vlan 13
Switch{ccn€ig-i€)#
Switch{ccn€ig-i€)#exit
```

Ctrl+F6toexitCLIfocus Copy Paste

@ Top

SW1

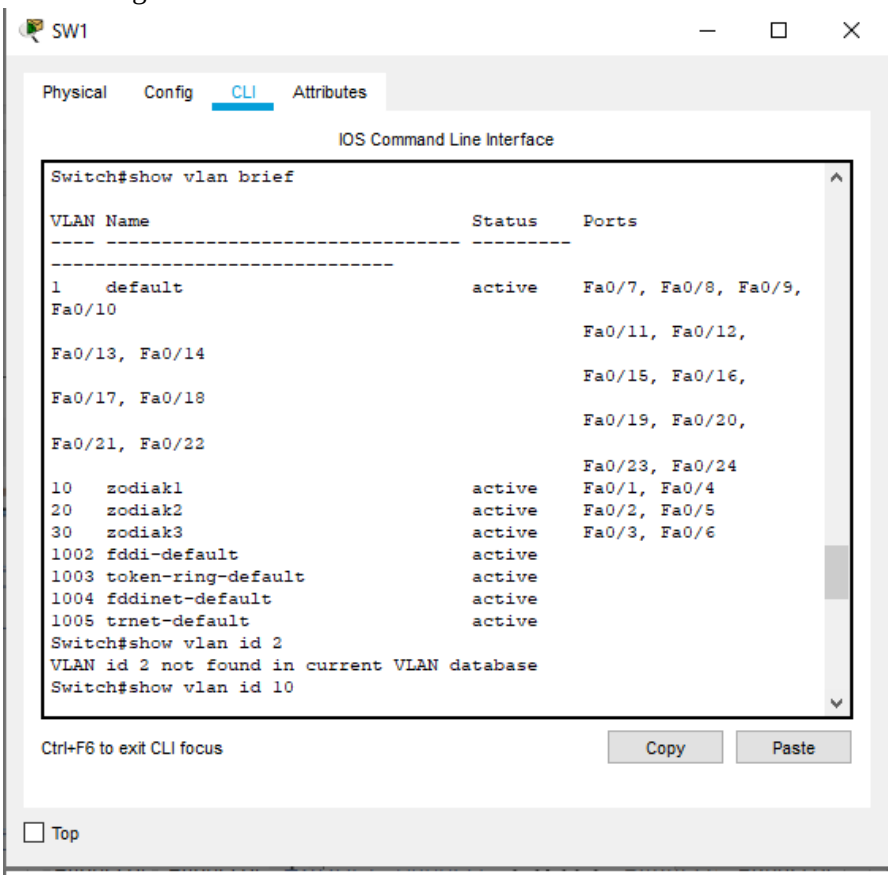
Physical honfig '?LI Attributes

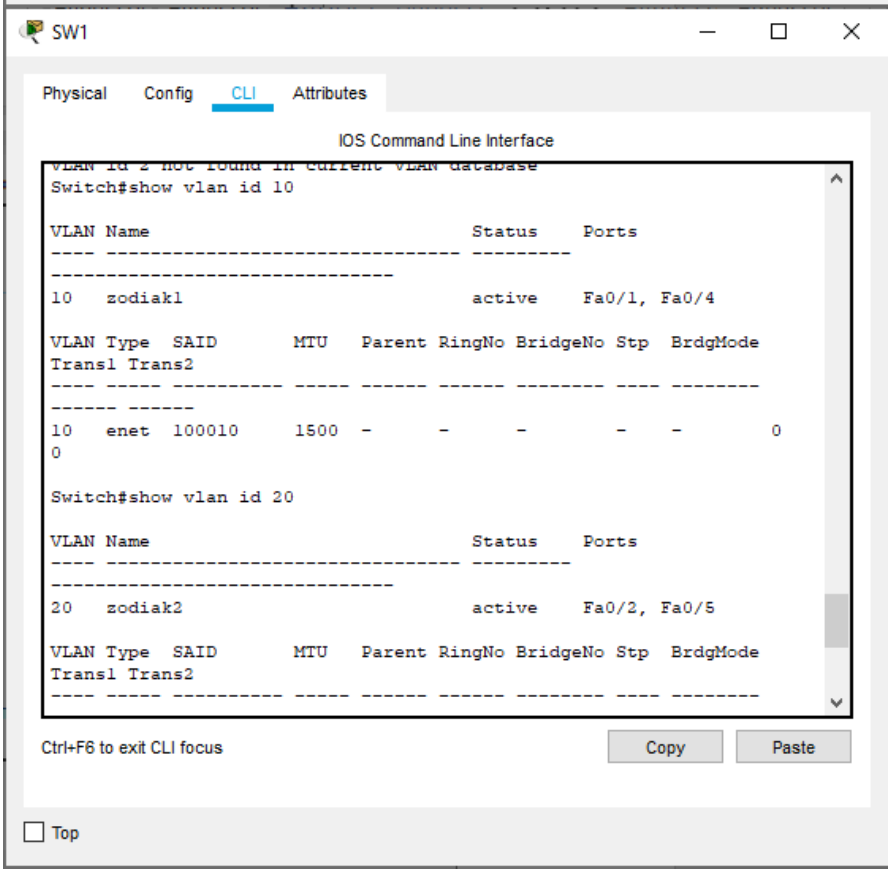
IOSCommandLineInterface

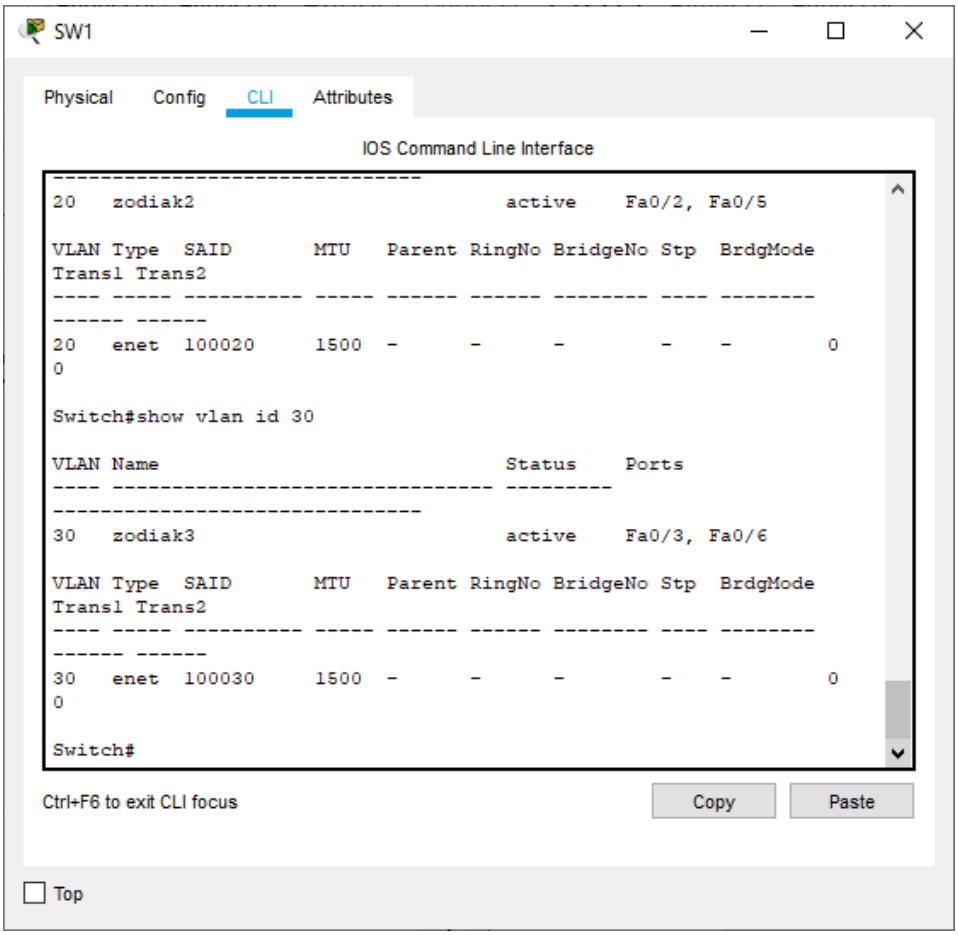
```
Switch{ccn€ig)#inter€ace Fast=thernet•3./4
Switch{ccn€ig-i€)#switchpcrt access vlan l•3
Switch¿ccn*ig-i*)gswitchpcrc mcde access
Swicch conSig-iS)#swizchporc access vlan lO
Swicch conSig-iS)#eniz
Switch{ccnSig)#interSace Fastithernet•l/m
Switch{ccnSig-iS)#switchpcrt mcde access
Switch{ccnSig-iS)#switchpcrt access vlan :L3
Switch¿ccn€ig-i€)ginter?ace Fast=thernet•3/6
Switch¿ccn€ig-i€)gswitchpcrt mcde access
Swicch conSig-iS)#swizchporc access vlan oO
Swicch conSig-iS)#eniz
Swicch{conSig)##inlerSace Fascicherne1'3./3

t Invalid input detected at ' ' marker.

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

Ctrl+F6toexitCLIfocus Gnpy 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
Transl 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
Transl Trans2
---- ----- ---------- ----- ------ ------ -------- ---- --------
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

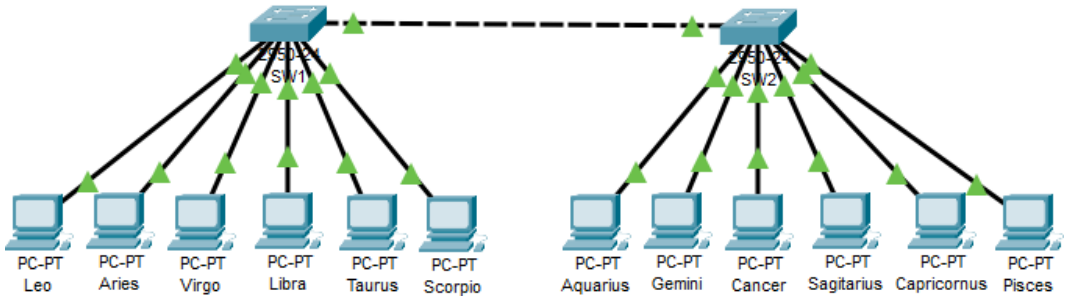


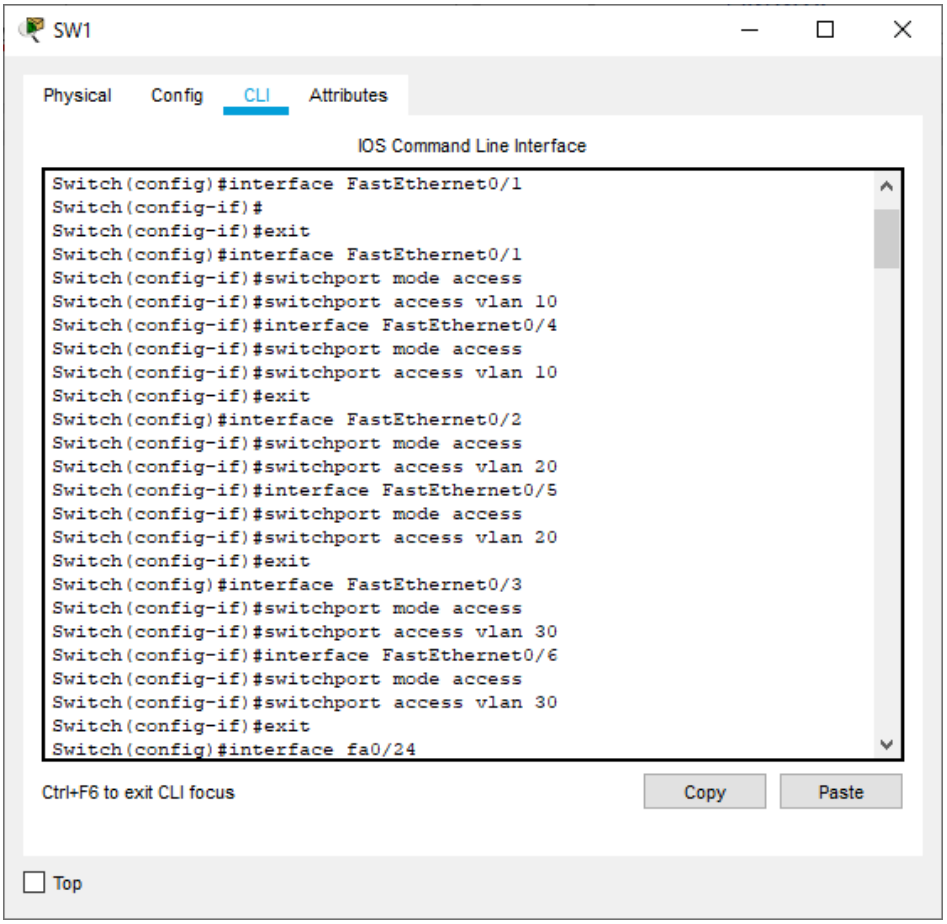
No	Variable	Nilai
1.	Nomor VLAN	10
2.	Nama VLAN	zodiak1
3.	Port	Fa0/1, Fa0/4
4.	Status	active
No	**Variable**	**Nilai**
1.	Nomor VLAN	20
2.	Nama VLAN	zodiak2
3.	Port	Fa0/1, Fa0/4
4.	Status	active
No	**Variable**	**Nilai**
1.	Nomor VLAN	30
2.	Nama VLAN	zodiak3
3.	Port	Fa0/1, Fa0/4
4.	Status	active

Tugas 6B:

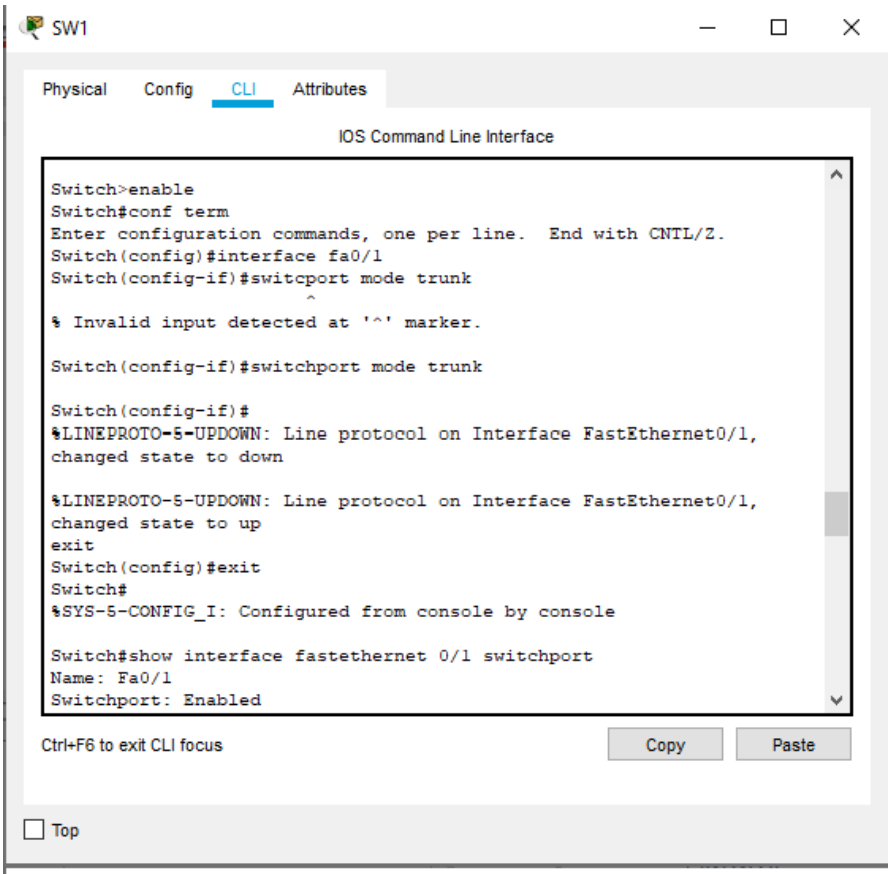
Untuk vlan yang ber-id kan 10, 20, dan 30 memiliki nama VLAN, port yang terhubung dan juga status dari VLAN aktif. Sedangkan untuk VLAN ber id 2,3,4 tidak memiliki nama VLAN, port yang terhubung, dan status.

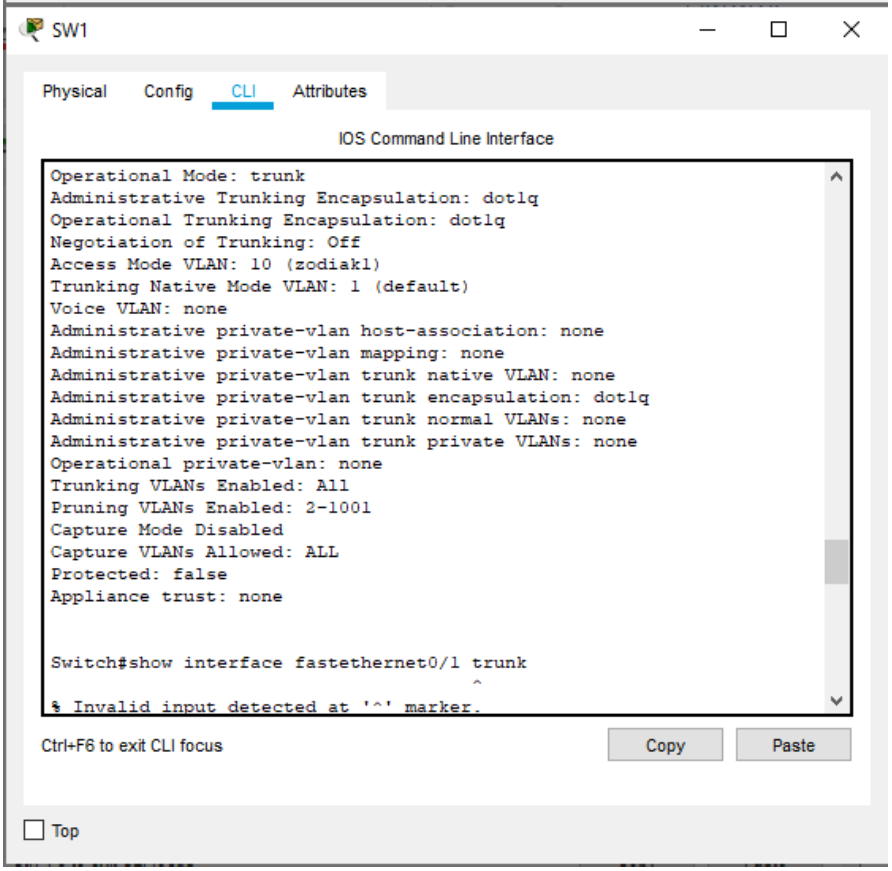
2. Kegiatan 2. Topologi2





Tugas 7A:


SW1
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fa0/1
Switch(config-if)#switcport mode trunk
% 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
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


SW1
Physical
Config
CLI
Attributes
IOS Command Line Interface
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.
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

SW1

Physical Config '?LI Attributes

IOSCommandLineInterface

```
Switch#shcw vlan

VLAN Name                                Status    Pcrts


1    default                             active    Fa0/7, Fa0/8, Fa0/9,
Fa'3./l'3
                                                   Fa•3./ll,Fa›3./lS;,
Fa•3/13,Fa•J/14
                                                   Fa'J/19,Fa'3/lé,
Fa•3./lz,Fa•Jjl8
                                                   Fa•3/lS,Fa'3/='3,
Fa•3./2l,Fa•3./==
                                                   Fa'J/•3,Fa'3/•4
l'3  zc:Jiakl                            active    FaO/4
='3  zc:Jiak=                            active    Fa•Jjx, Fa•Jj9
3'3  zcdial:3                            active    Fa•J/3, Fa•J/?
l'3•3= *idi-default                      active
l'3•33zoDen-ring-de*aulc                 active
l'3•34 Sidinet-default                   active
l'3•3?trnet-default                      active

VLAN lype ShI3          tlU    la z ens  II ngNc Bz1 4gelfc Szp    Bz JgNc4e
Iransl Iranso
```

Ctrl+F6toexitDLIfacus Copy Paste

@ Top

SW1

Physical Config '?LI Attributes

IOSCommandLineInterface

```
3'3   enel 1•3•J'33'3     1500                                  0

1002 fddi  101002         1500                                  0


l'3•34Sdnetl•3l'3O4       1500                    ieee          0

l'3•3ozrnecl•3l'3•J9      1500                    ibm           0

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


ñemcte SPAN VLANs


Primary Secondary lype              Pcrts

Swizch#
```

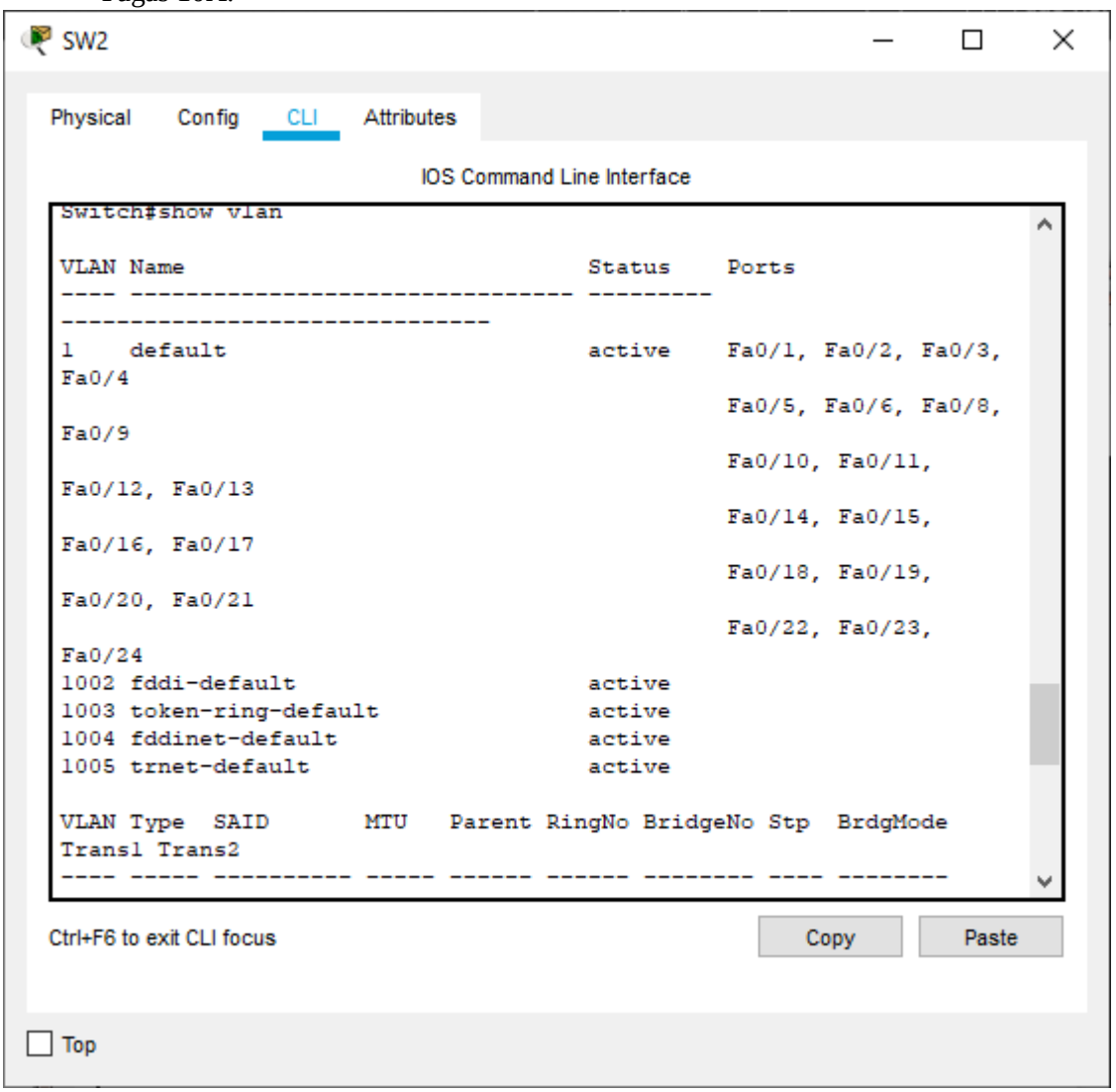
Ctrl+F6toexitDLIfacus Copy Paste

@ 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 mengabungkan trafik VLANnya dengan VLAN di switch lain.

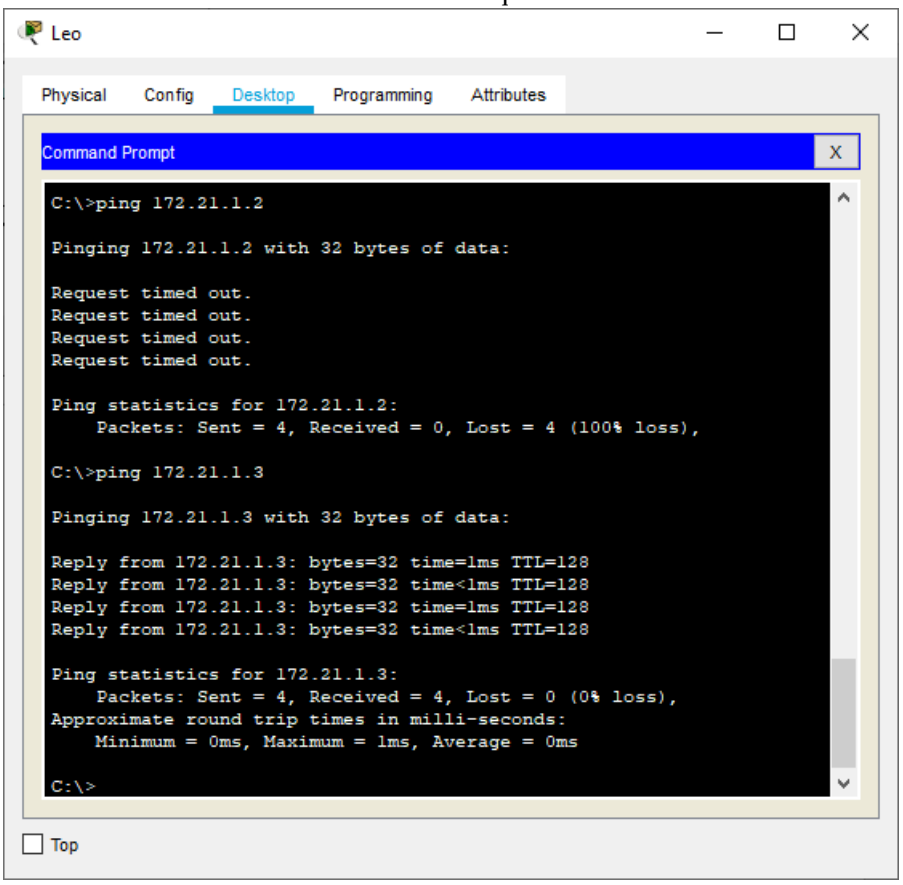
Tugas 10A:



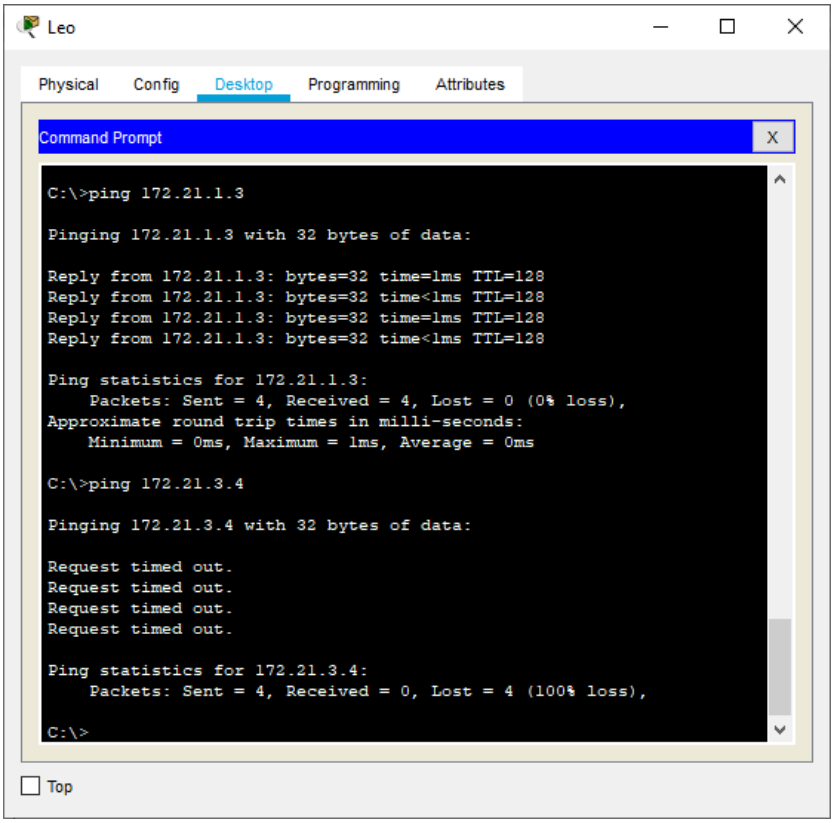
Port pada fastethernet 0/7 trunking dengan switch 1

Tugas 12A:

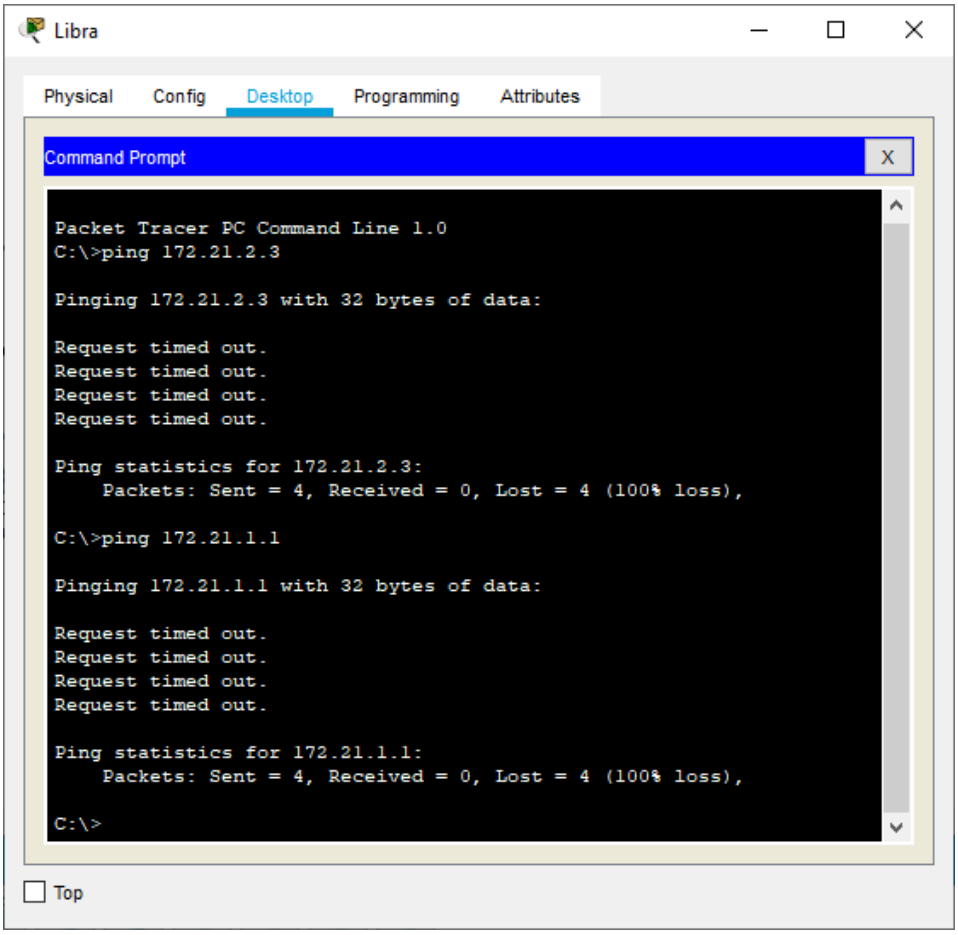
PC Leo ke PC Aries dan PC Leo ke PC Aquarius



PC Leo ke PC Pisces



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.