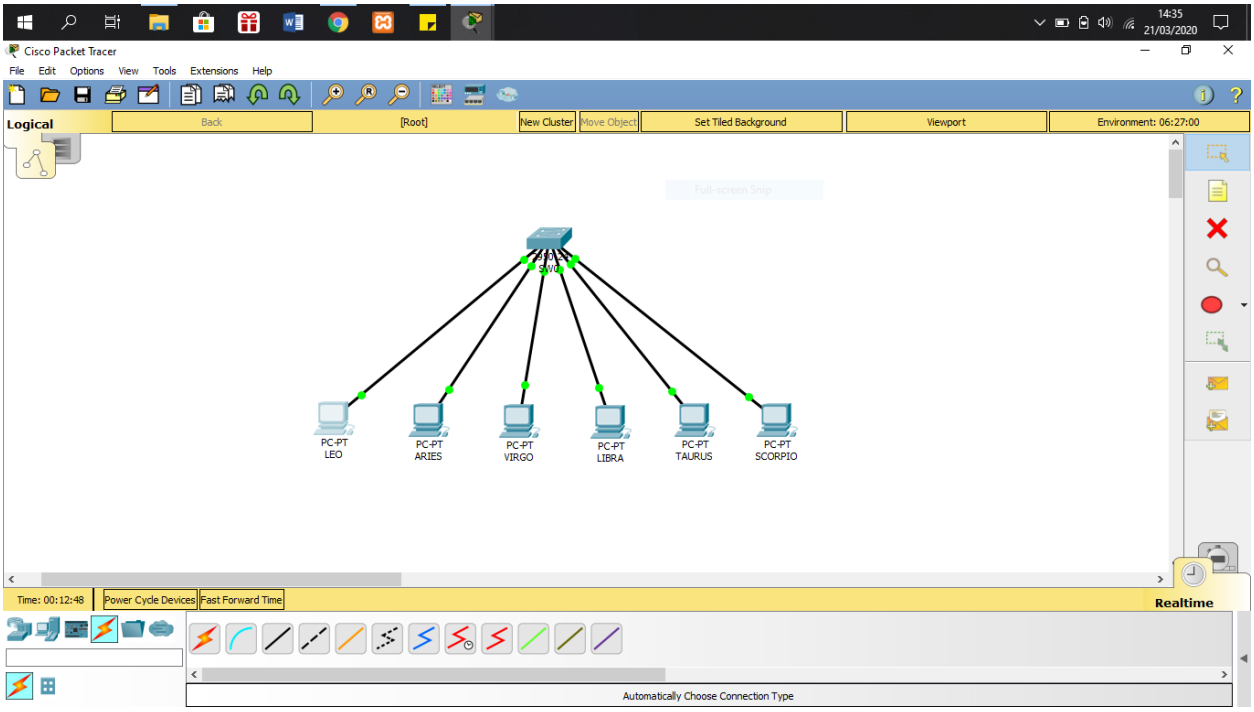
NAMA : Putri Siwi Utami

NIM : L200180146

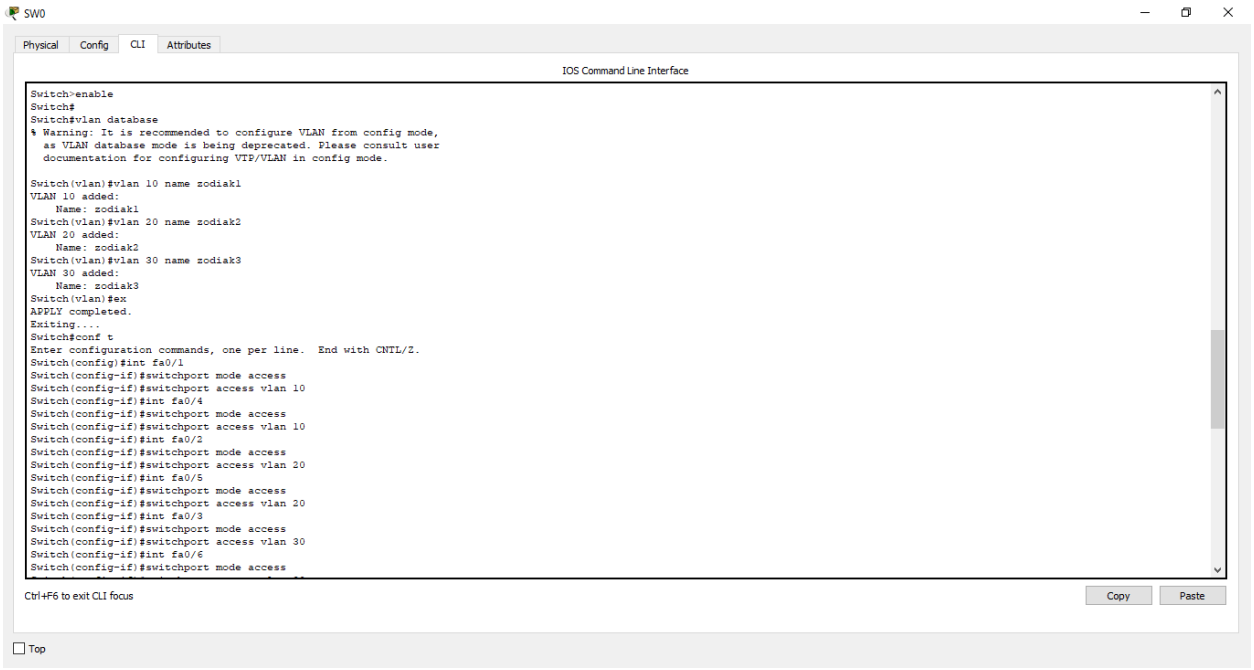
KELAS : D

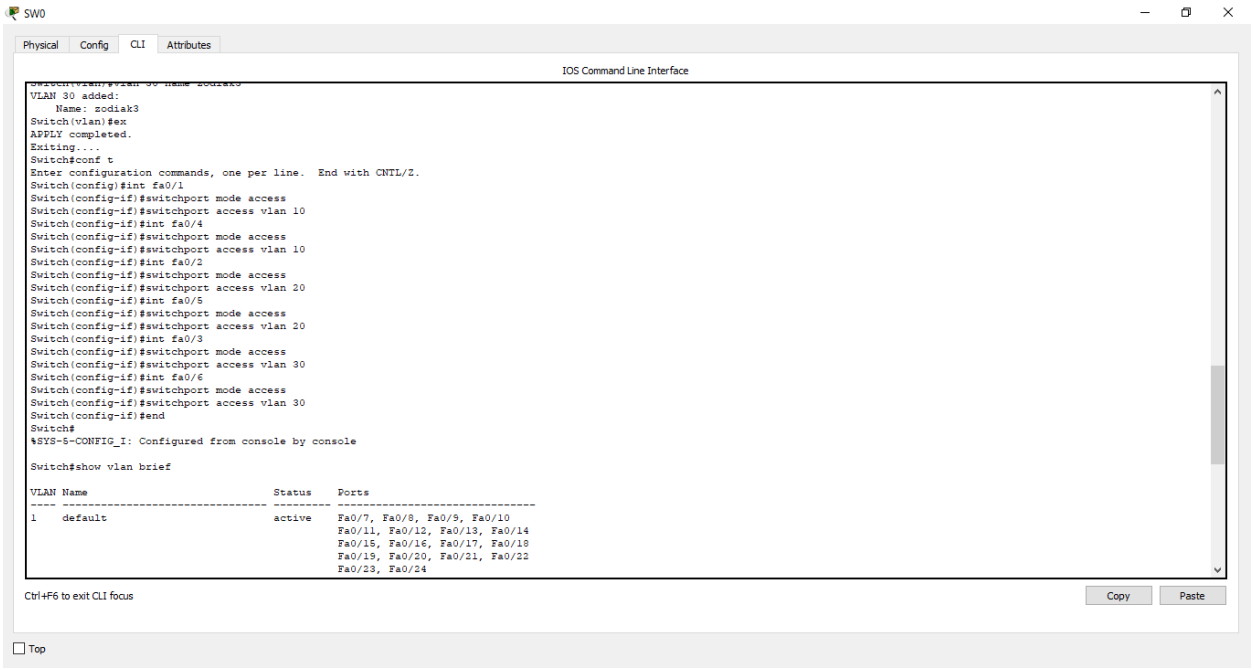
Modul 4

Kegiatan 1

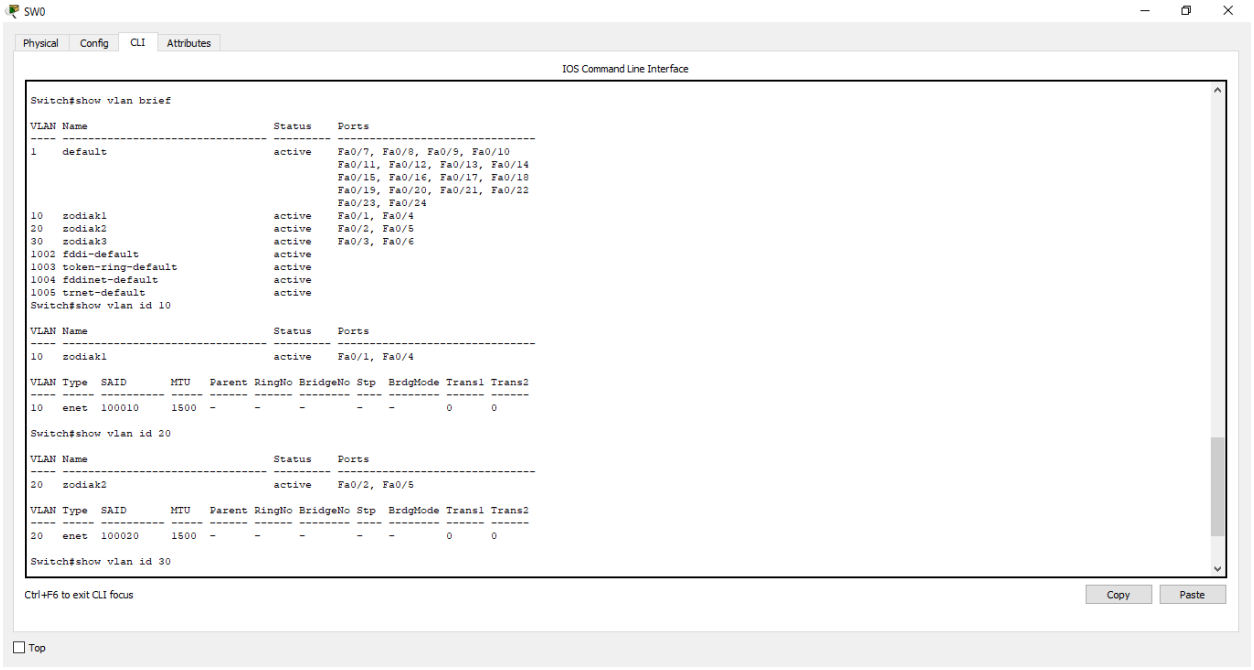


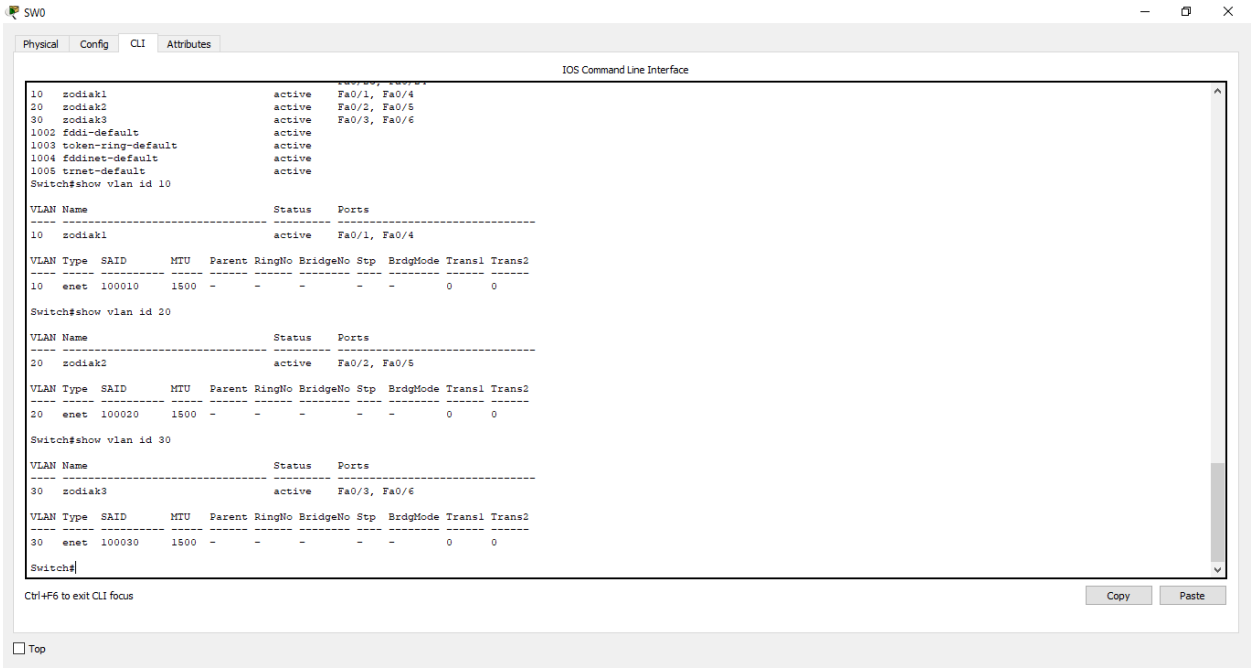
Sw0


SW0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>enable
Switch#
Switch#vlan database
% Warning: It is recommended to configure VLAN from config mode,
as VLAN database mode is being deprecated. Please consult user
documentation for configuring VTP/VLAN in config mode.
Switch(vlan)#vlan 10 name zodiak1
VLAN 10 added:
Name: zodiak1
Switch(vlan)#vlan 20 name zodiak2
VLAN 20 added:
Name: zodiak2
Switch(vlan)#vlan 30 name zodiak3
VLAN 30 added:
Name: zodiak3
Switch(vlan)#ex
APPLY completed.
Exiting....
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#int fa0/6
Switch(config-if)#switchport mode access
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


SW0
Physical
Config
CLI
Attributes
IOS Command Line Interface
VLAN 30 added:
Name: zodiak3
Switch(vlan)#ex
APPLY completed.
Exiting....
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#int fa0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#end
Switch#
%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
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
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

SW0 (Show VLAN)





Tugas 6A

NO	VARIABLE	NILAI
1	Nomer VLAN	10
2	Nama VLAN	Zodiak1
3	Port	Fa0/1, Fa0/4
4	Status	Active

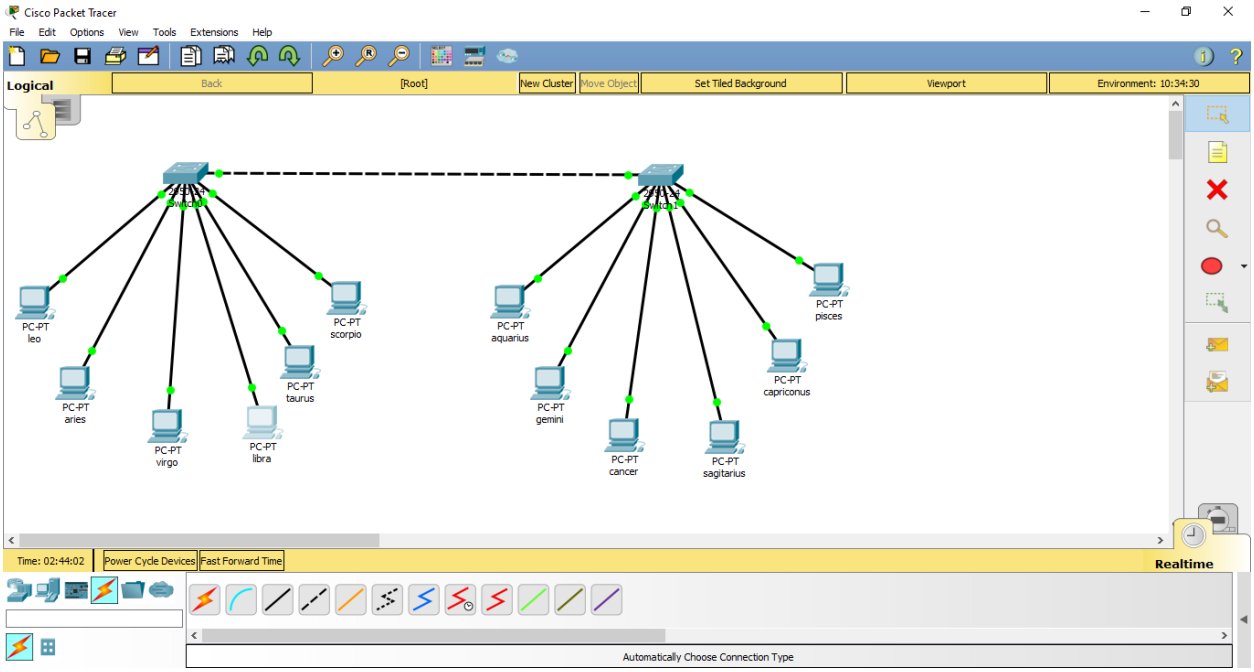
NO	VARIABLE	NILAI
1	Nomer VLAN	20
2	Nama VLAN	Zodiak2
3	Port	Fa0/2, Fa0/5
4	Status	Active

NO	VARIABLE	NILAI
1	Nomer VLAN	30
2	Nama VLAN	Zodiak3
3	Port	Fa0/3, Fa0/6
4	Status	Active

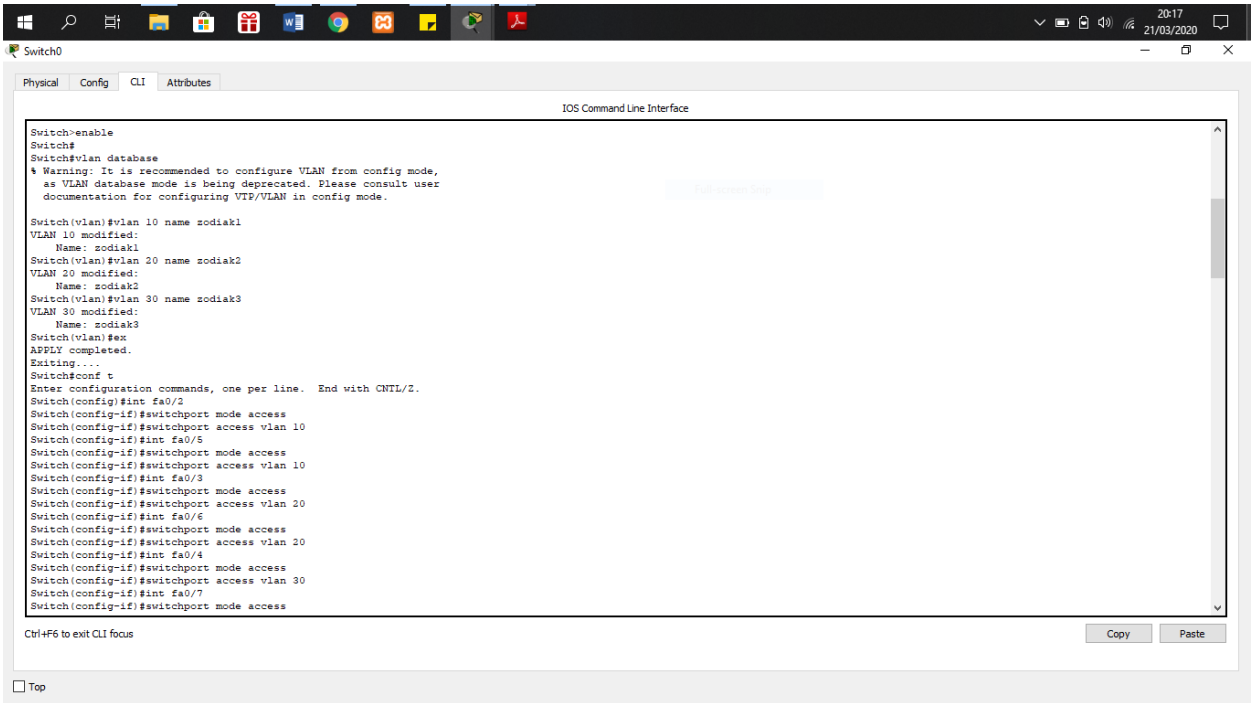
Tugas 6B

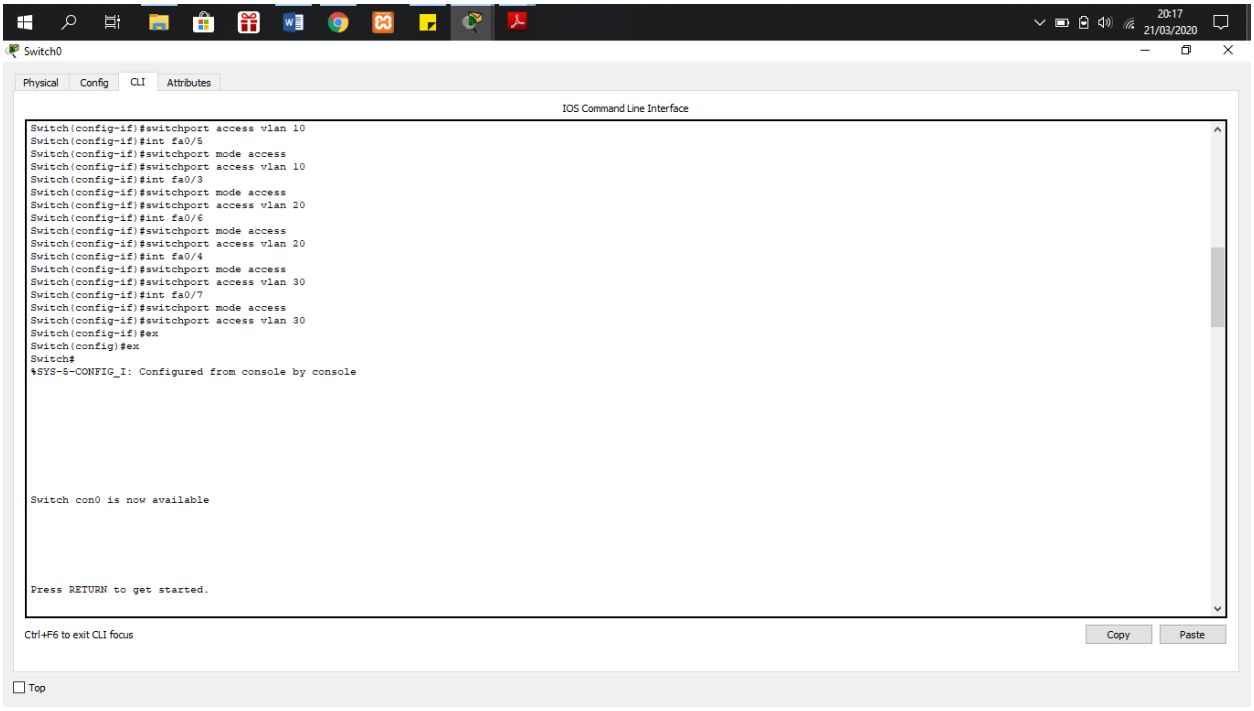
Hasil dari 6A yaitu configuration yang kita lakukan telah menjadikan 3 id vlan yang terdiri dari zodiak1(10), zodiak2(20), zodiak3(30) dan masing-masing id vlan diisi dengan 2 port (PC/Client) dan semua vlan statusnya telah aktif

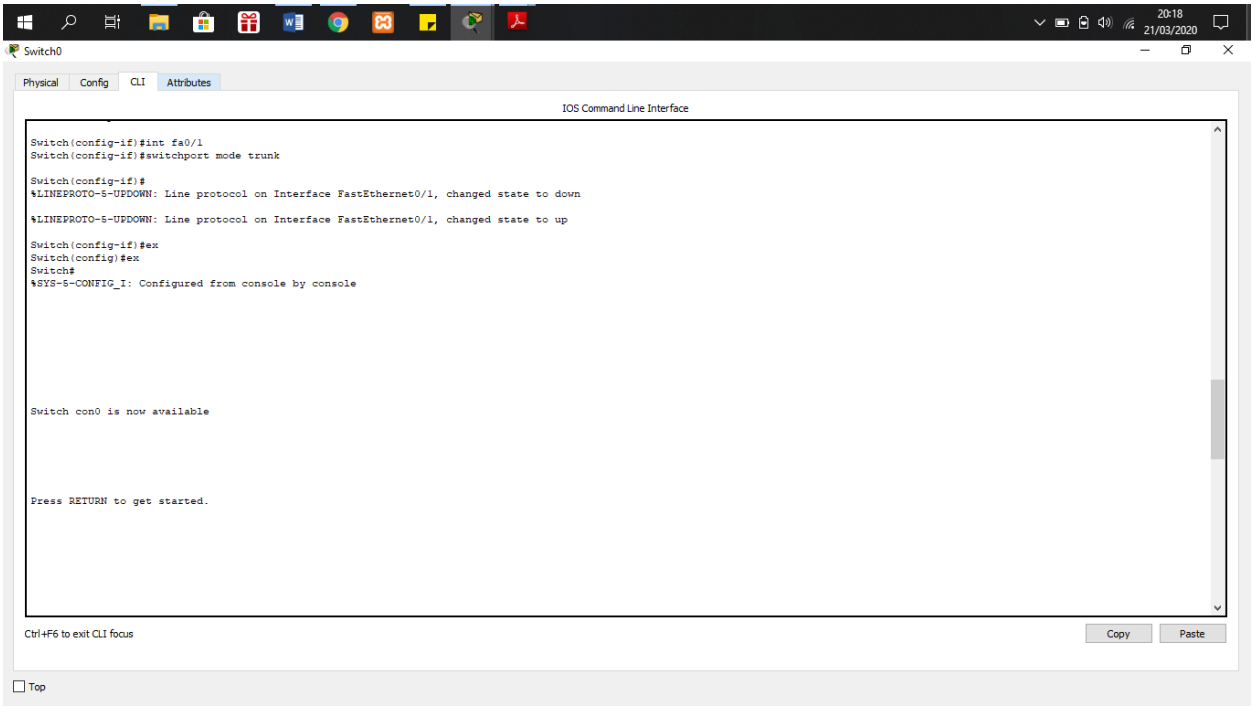
Kegiatan 2

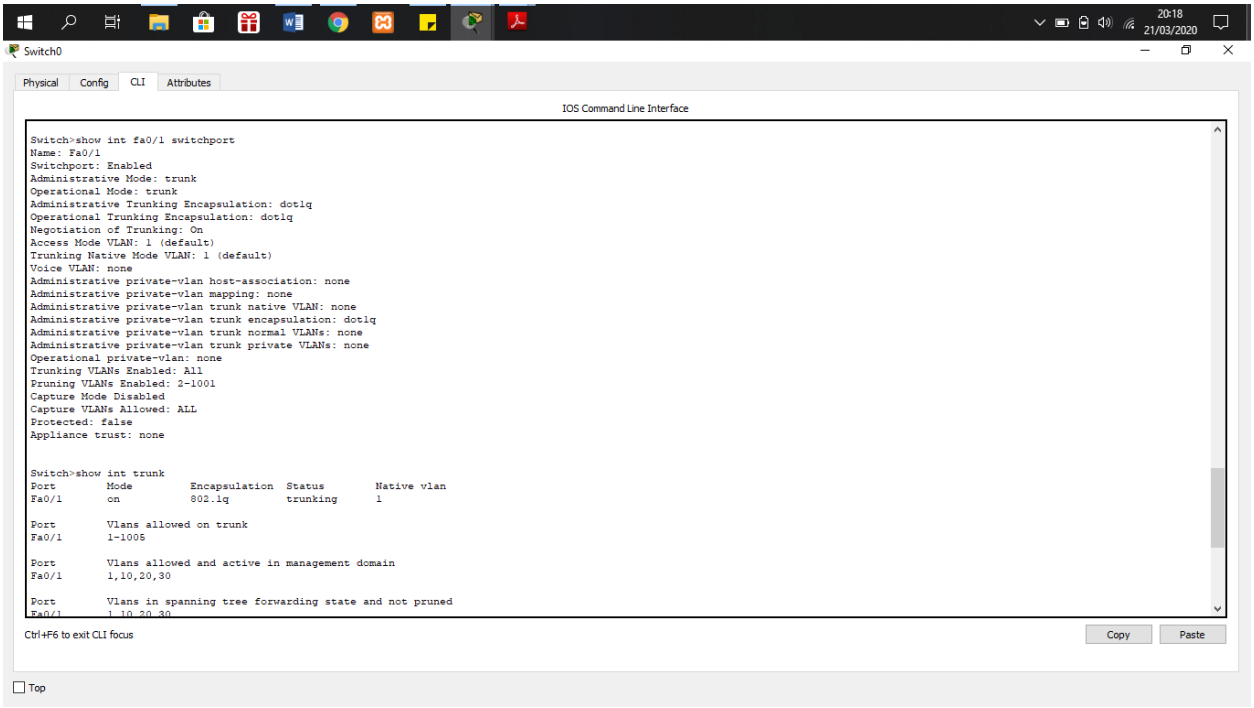


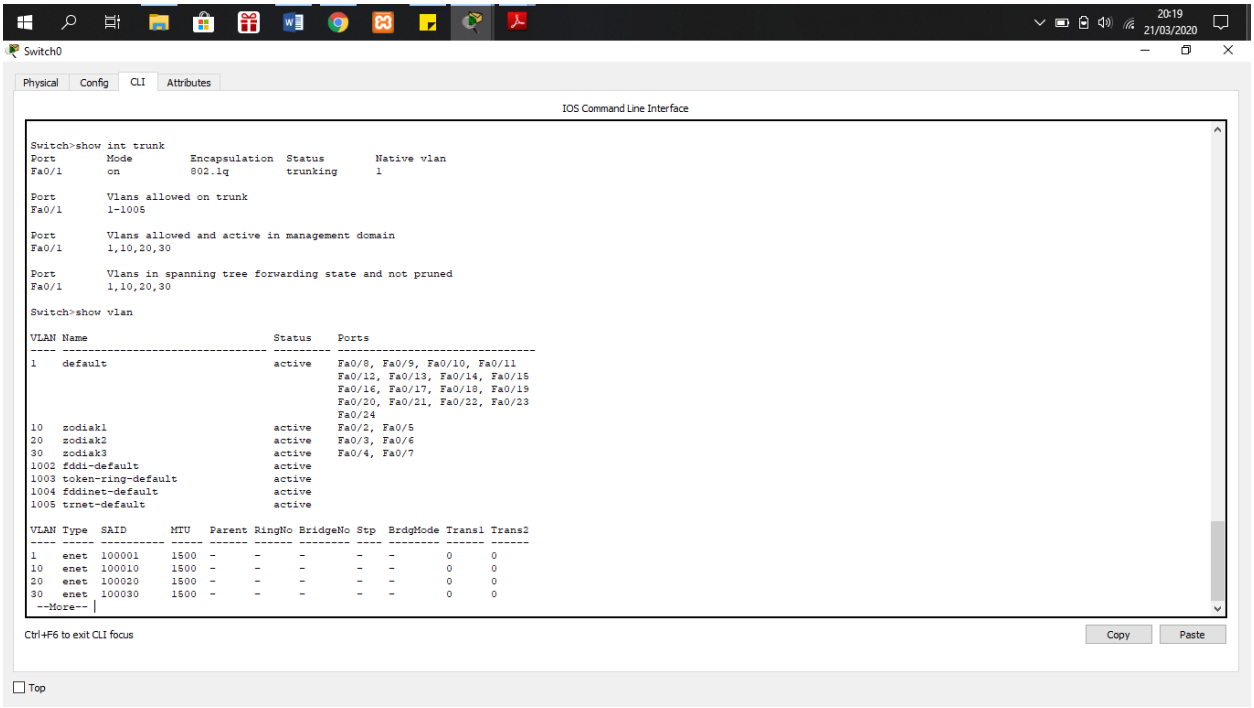
Sw0




20:17
21/03/2020
Switch0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#int fa0/7
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#ex
Switch(config)#ex
Switch#
%SYS-5-CONFIG_I: Configured from console by console
Switch con0 is now available
Press RETURN to get started.
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


20:18
21/03/2020
Switch0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch(config-if)#int fa0/1
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
Switch(config-if)#ex
Switch(config)#ex
Switch#
%SYS-5-CONFIG_I: Configured from console by console
Switch con0 is now available
Press RETURN to get started.
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

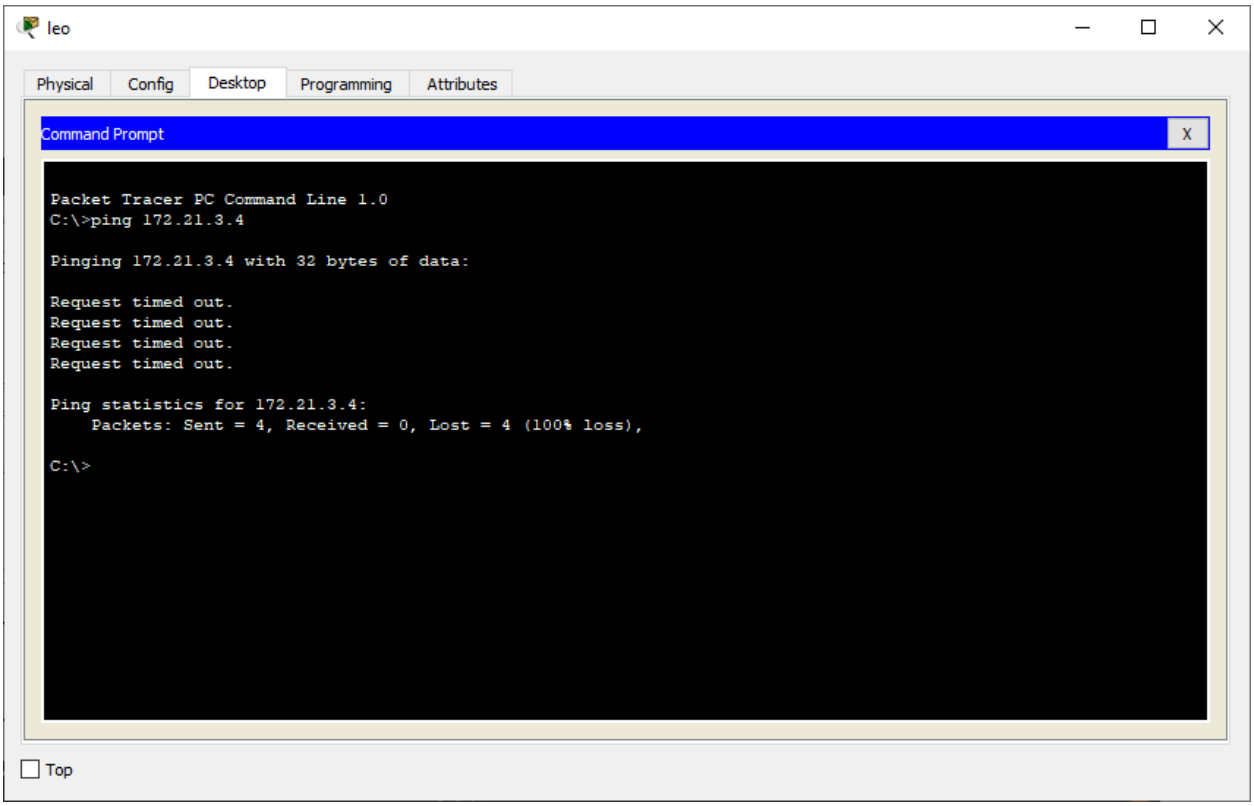




Hasil dari Trunking pada FastEnthernet 0/1 adalah kita telah mengijinkan VLAN dari SW0 untuk memperluas VLANnya dengan jalur tunggal yaitu pada port 0/1 sebagai jalur utamanya atau bisa dibilang menghubungkan antar device dengan jalur dari port Trunk(Fa0/1).

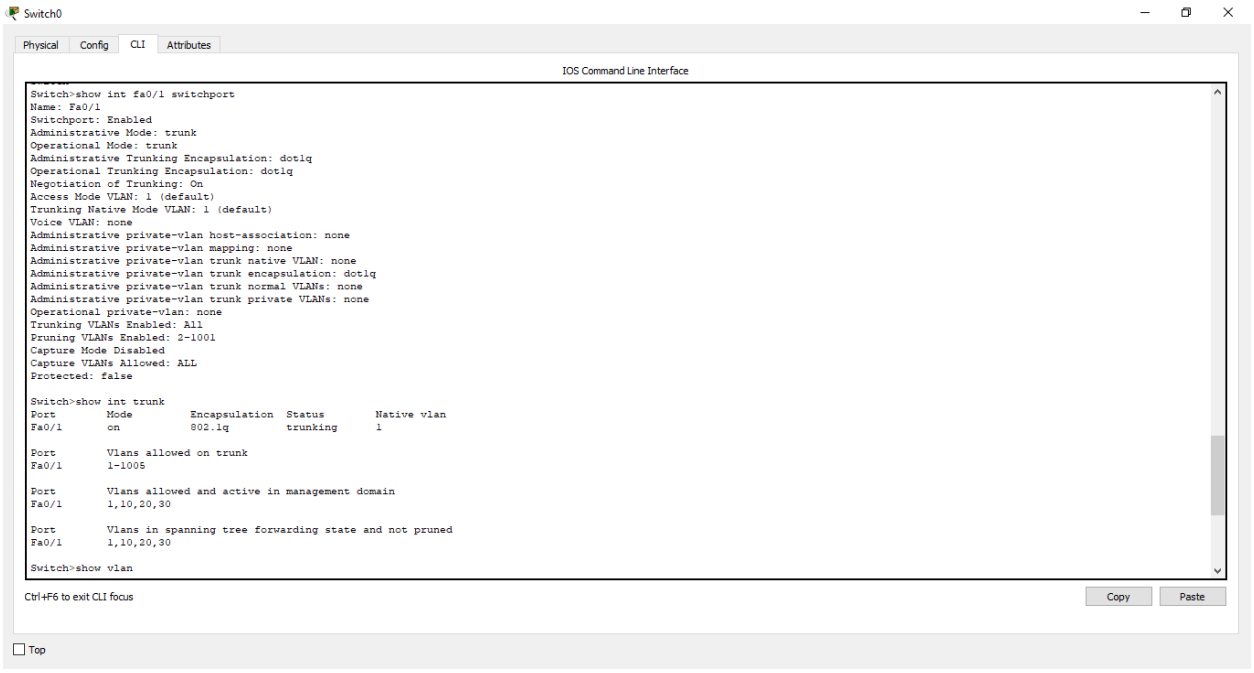
Tugas 7A

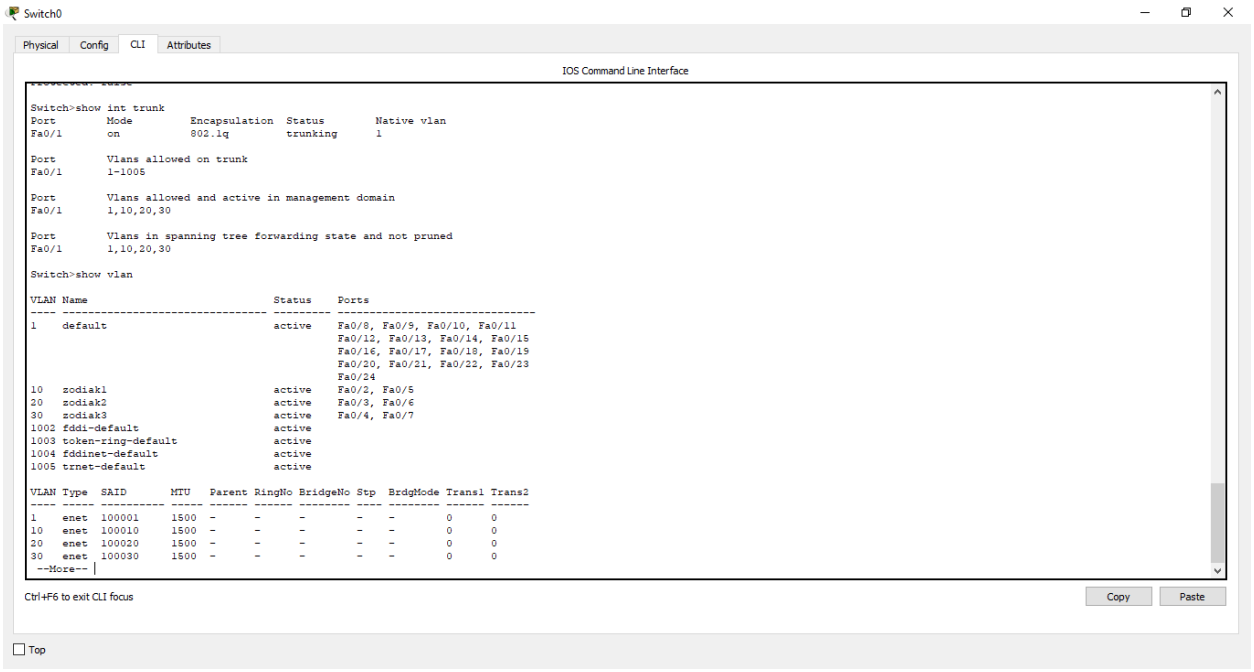
Ping dari PC LEO ke PC PISCES



Hasilnya RTO karena walaupun sudah di-Trunking kemudian menyampungkan sesama VLAN ID tapi kalau networknya berbeda tidak bisa terhubung.

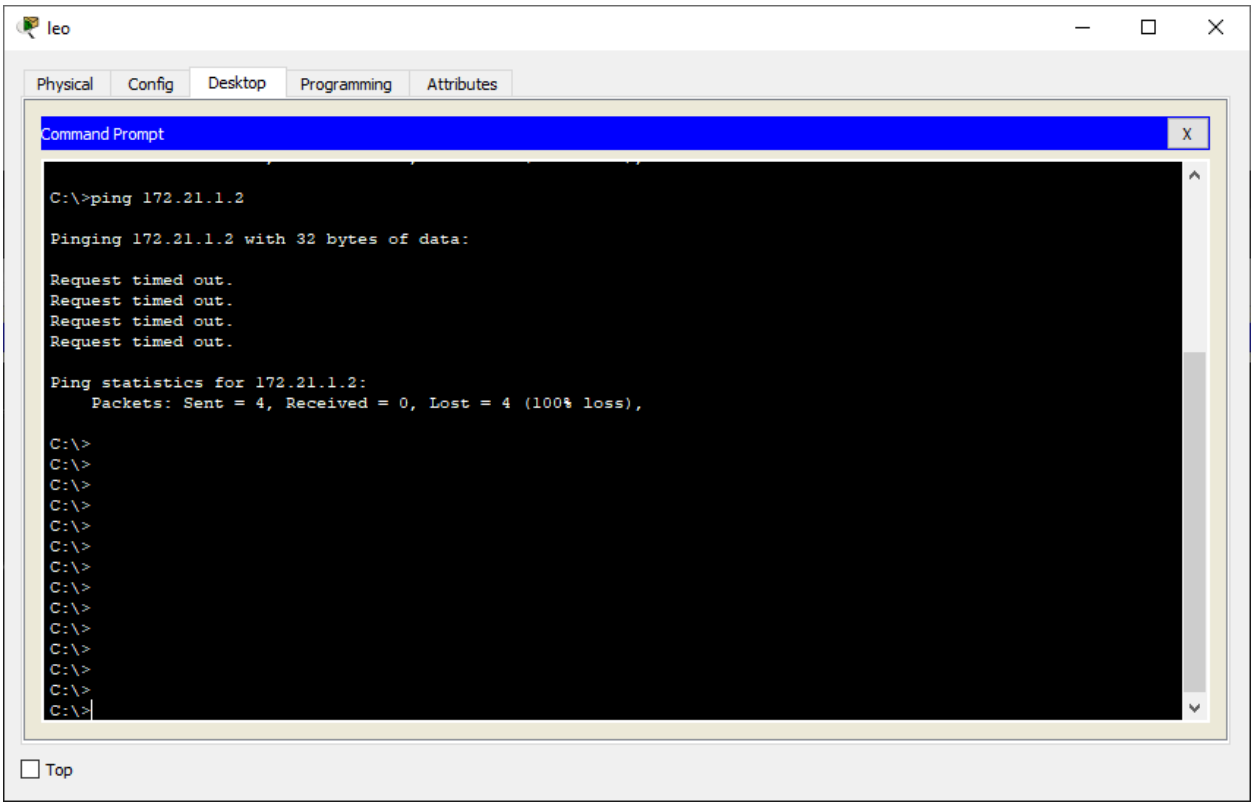
Tugas 8A


Switch0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>show int fa0/1 switchport
Name: Fa0/1
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: dot1q
Negotiation of Trunking: On
Access Mode VLAN: 1 (default)
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
Switch>show int trunk
Port Mode Encapsulation Status Native vlan
Fa0/1 on 802.1q trunking 1
Port Vlans allowed on trunk
Fa0/1 1-1005
Port Vlans allowed and active in management domain
Fa0/1 1,10,20,30
Port Vlans in spanning tree forwarding state and not pruned
Fa0/1 1,10,20,30
Switch>show vlan
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

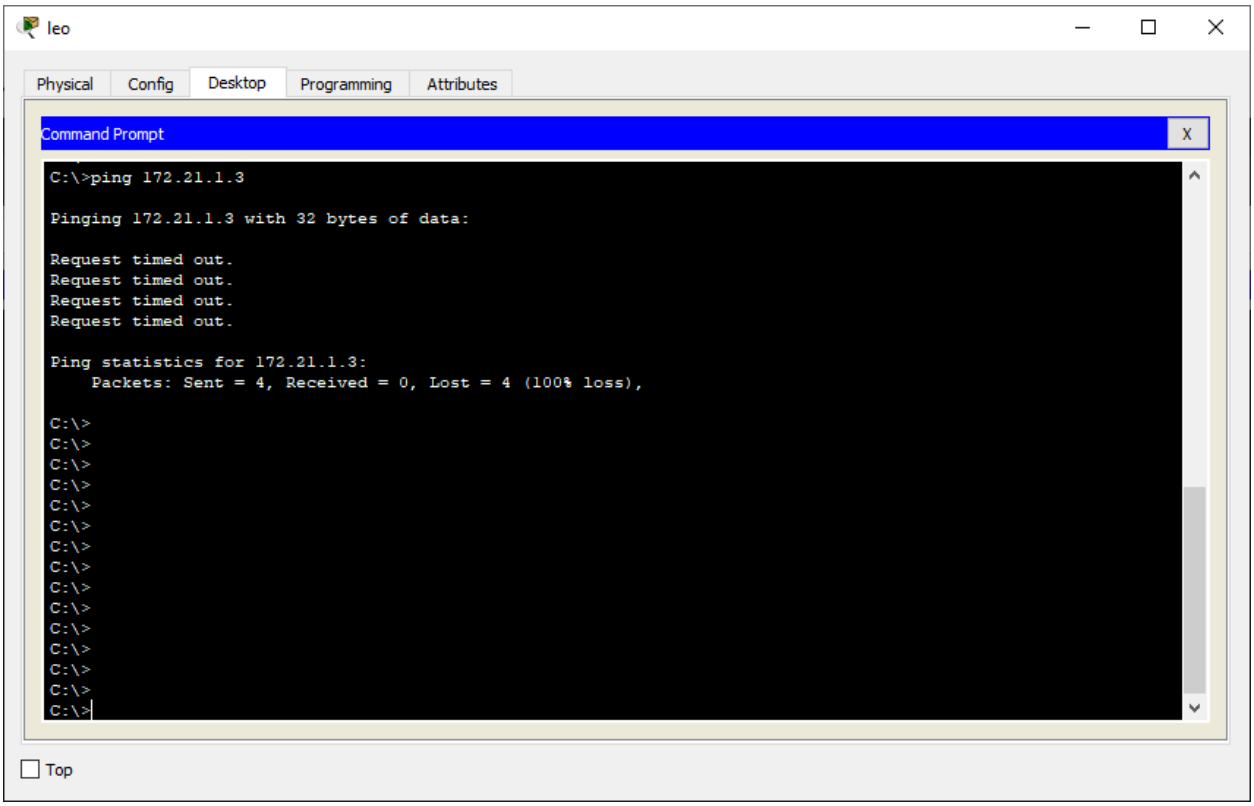

Switch0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Switch>show int trunk
Port Mode Encapsulation Status Native vlan
Fa0/1 on 802.1q trunking 1
Port Vlans allowed on trunk
Fa0/1 1-1005
Port Vlans allowed and active in management domain
Fa0/1 1,10,20,30
Port Vlans in spanning tree forwarding state and not pruned
Fa0/1 1,10,20,30
Switch>show vlan
VLAN Name Status Ports
1 default active 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 Fa0/2, Fa0/5
20 zodiak2 active Fa0/3, Fa0/6
30 zodiak3 active Fa0/4, Fa0/7
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
1 enet 100001 1500 - - - - - 0 0
10 enet 100010 1500 - - - - - 0 0
20 enet 100020 1500 - - - - - 0 0
30 enet 100030 1500 - - - - - 0 0
--More--
Ctrl+F6 to exit CLI focus
Copy
Paste
Top

Tugas 10A

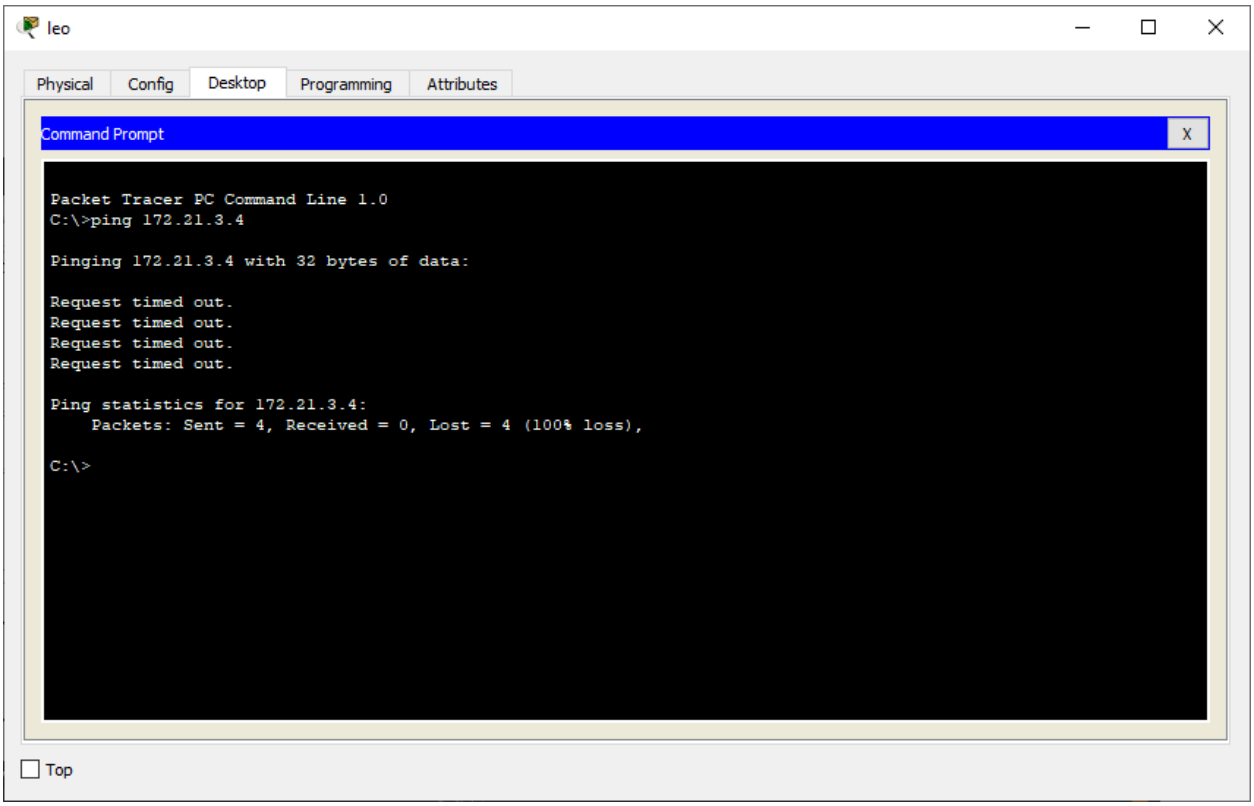
Ping dari PC LEO ke PC ARIES



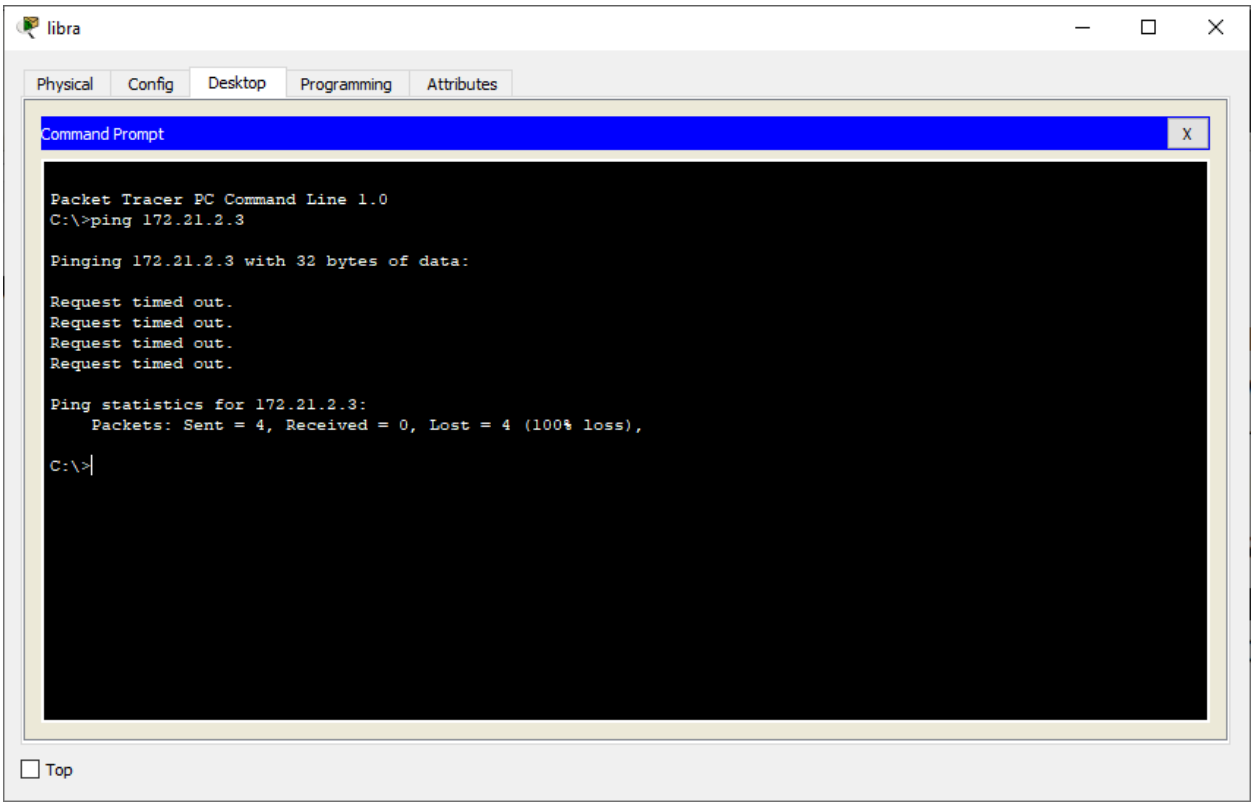
Ping dari PC LEO ke PC AQUARIUS



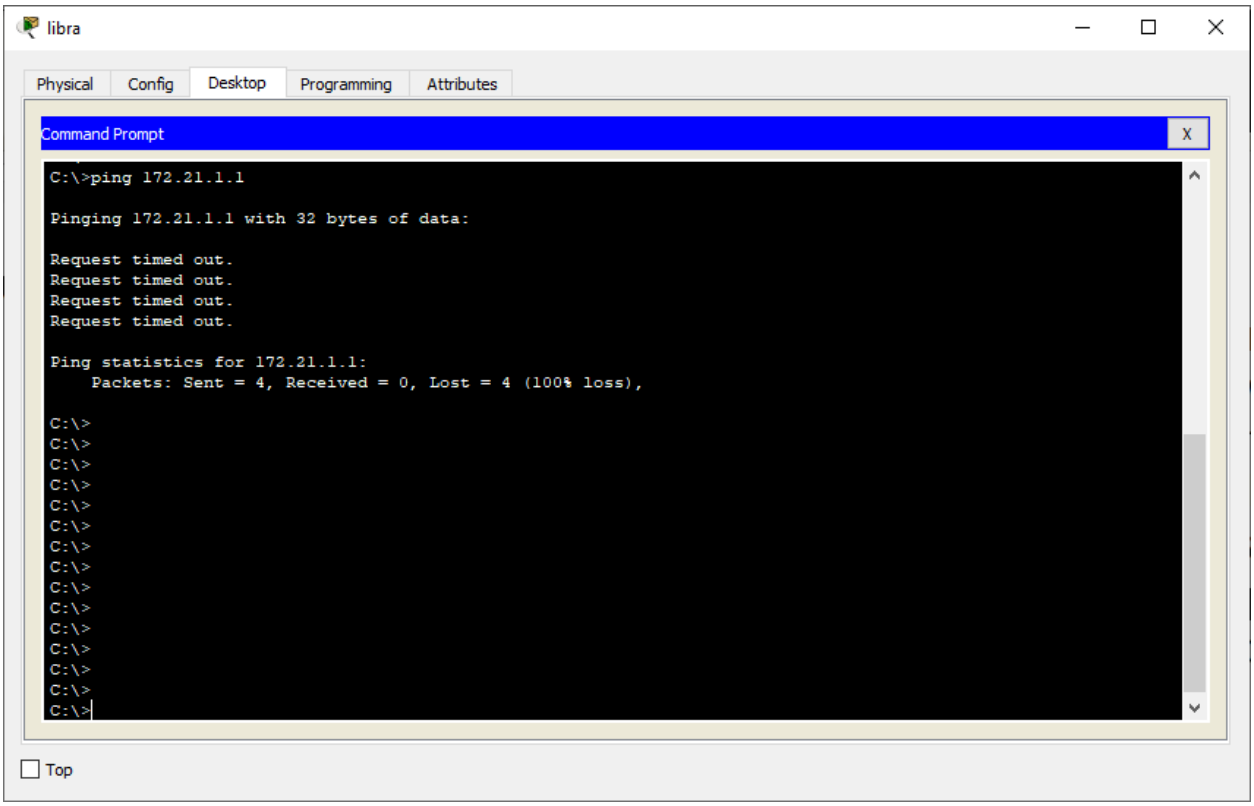
Ping dari PC LEO ke PC PISCES



Ping dari PC LIBRA ke PC CANCER



Ping dari PC LIBRA ke PC LEO



Tugas 12A:

- Dari langkah 8 dapat disampaikan bahwa seluruh device yang sudah dikonfigurasi hasil dari pengujian koneksi (ping) menunjukkan bahwa device yang dalam jaringan yang sama namun memiliki perbedaan dalam VLAN menunjukkan hasil RTO, dalam network yang sama namun dalam VLAN yang berbeda juga menunjukkan hasil RTO.
- Untuk hasil pengajian koneksi (ping) yang reply hanyalah dalam device dengan spesifikasi jaringan yang sama dan dalam VLAN yang sama perlu adanya konfigurasi gateway dalam switch agar dalam setiap device dapat terkoneksi satu dengan yang lain.