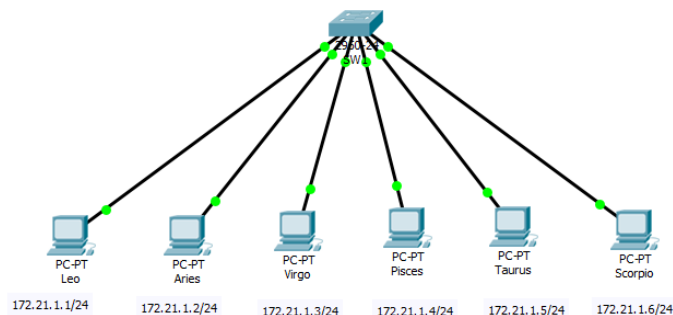


Nama : Fitri Cahya Kusumawati  
NIM : L200170110  
Kelas : C  
Modul : 4 Kegiatan menjadi tugas

## KEGIATAN 1

1. Buat sebuah rangkaian dengan 1 switch dan 6 PC, lalu di gabungkan dengan kabel
2. Saat menggabungkan PC dengan switch, pilih Fastethernet 0/1 untuk PC pertama dan seterusnya
3. Ubah nama masing-masing perangkat SW1 (Switch), Leo (PC0), Aries (PC1), Virgo (PC2), Pisces (PC3), Taurus (PC4), dan Scorpio (PC5)
4. Konfigurasi masing – masing PC dengan nama dan alamat berikut :
  - Leo = 172.21.1.1/24 (255.255.255.0)
  - Aries = 172.21.1.2/24 (255.255.255.0)
  - Virgo = 172.21.1.3/24 (255.255.255.0)
  - Pisces = 172.21.1.4/24 (255.255.255.0)
  - Taurus = 172.21.1.5/24 (255.255.255.0)
  - Scorpio = 172.21.1.6/24 (255.255.255.0)



5. Klik SW1, lalu config, lalu switching, lalu VLAN, kemudian klik Add
6. Buat 3 VLAN dengan nama zodiak1, zodiak2, zodiak 3

SW1

```
Physical Config CLI Attributes
Switch#
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name
% Incomplete command.
Switch(config-vlan)#name zodiak1
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#name zodiak2
Switch(config-vlan)#exit
Switch(config)#vlan 30
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#exit
Switch(config)#
```

7. Pada mode config, lalu fastethernet 0/1 dan 0/4 dengan zodiak1, fastethernet 0/2 dan 0/5 dengan zodiak2, fastethernet 0/3 dan 0/6 dengan zodiak3

```
Switch(config)#
Switch(config)#interface FastEthernet0/1
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#switchport access vlan 10
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/4
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#switchport access vlan 10
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/2
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#switchport access vlan 20
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/5
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#switchport access vlan 20
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/3
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#switchport access vlan 20
Switch(config-if)#
Switch(config-if)#switchport access vlan 30
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/6
Switch(config-if)#
Switch(config-if)#
Switch(config-if)#switchport access vlan 30
Switch(config-if)#
```

Ctrl+F6 to exit CLI focus

☐ Top

8. Pada mode priviled, ketik show vlan brief untuk melihat vlan keeluruhan

```
Switch#
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	

Ctrl+F6 to exit CLI focus

9. Pada mode priviled, ketik show vlan id 10 untuk melihat vlan 10

```
Switch#
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	0

10. Pada mode priviled, ketik show vlan id 20 untuk melihat vlan 20

```
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
20	enet	100020	1500	-	-	-	-	0	0

11. Pada mode priviledged, ketik show vlan id 30 untuk melihat vlan 30

```
Switch#show vlan id 30
VLAN Name                Status    Ports
-----
30   zodiak3                active    Fa0/3, Fa0/6
VLAN Type  SAID          MTU   Parent RingNo BridgeNo Stp  BrgdMode Trans1 Trans2
30   enet  100030      1500   -     -     -     -     -       0       0
Switch#
```

TUGAS 6A:

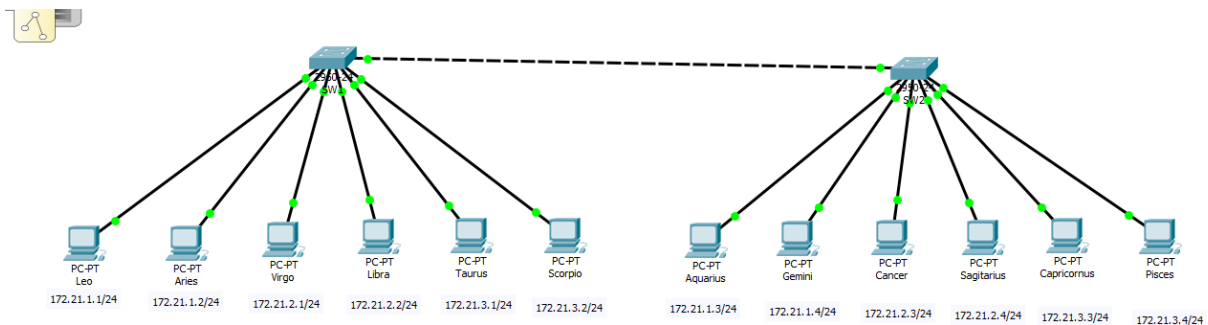
Nomor VLAN	Nama VLAN	Port	Status
10	Zodiak1	active	Fa0/1, Fa0/4

Nomor VLAN	Nama VLAN	Port	Status
20	Zodiak2	active	Fa0/2, Fa0/5

Nomor VLAN	Nama VLAN	Port	Status
30	Zodiak3	active	Fa0/3, Fa0/6

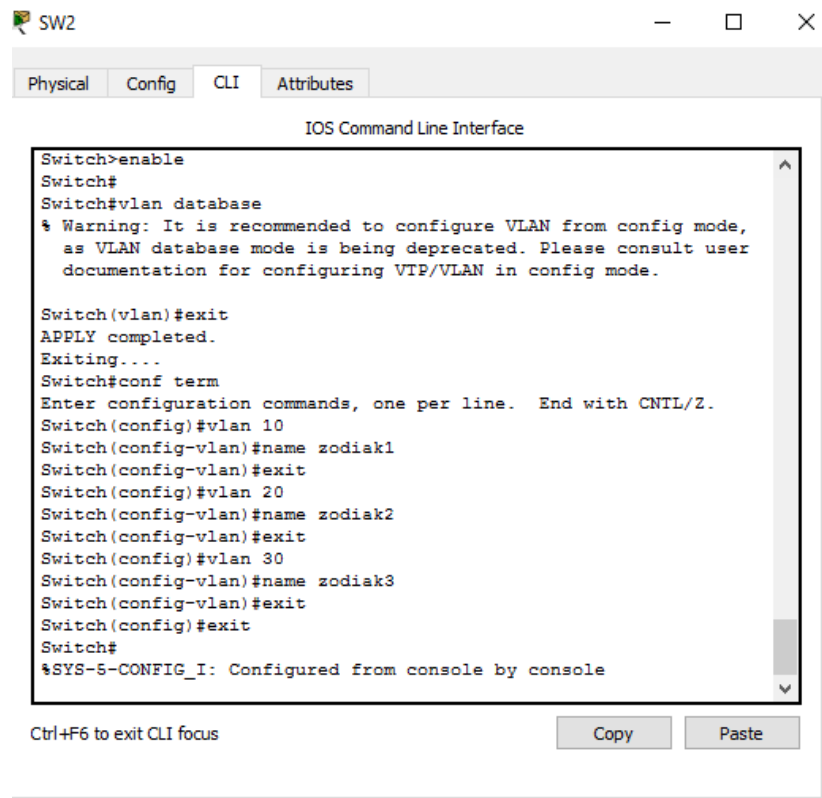
## KEGIATAN 2

1. Buat sebuah rangkaian dengan 2 switch dan 12 PC, lalu di gabungkan dengan kabel
2. Saat menggabungkan PC dengan switch, pilih Fastethernet 0/1 untuk PC pertama dan seterusnya
3. Ubah nama masing-masing perangkat SW1 (Switch 1), Leo (PC0), Aries (PC1), Virgo (PC2), Libra (PC3), Taurus (PC4), dan Scorpio (PC5)
4. Ubah nama masing-masing perangkat SW2 (Switch 2), Aquarius (PC6), Gemini (PC7), Cancer (PC8), Sagitarius (PC9), Capricornus (PC10), dan Pisces (PC11)
5. Konfigurasi masing – masing PC dengan nama dan alamat berikut :
  - Leo = 172.21.1.1/24 (255.255.255.0)
  - Aries = 172.21.1.2/24 (255.255.255.0)
  - Virgo = 172.21.2.1/24 (255.255.255.0)
  - Libra = 172.21.2.2/24 (255.255.255.0)
  - Taurus = 172.21.3.1/24 (255.255.255.0)
  - Scorpio = 172.21.3.2/24 (255.255.255.0)
  - Aquarius = 172.21.1.3/24 (255.255.255.0)
  - Gemini = 172.21.1.4/24 (255.255.255.0)
  - Cancer = 172.21.2.3/24 (255.255.255.0)
  - Sagitarius = 172.21.2.4/24 (255.255.255.0)
  - Capricornus = 172.21.3.3/24 (255.255.255.0)
  - Pisces = 172.21.3.4/24 (255.255.255.0)



6. Untuk SW 1 sudah terdapat pada kegiatan 1

7. Untuk SW 2 :

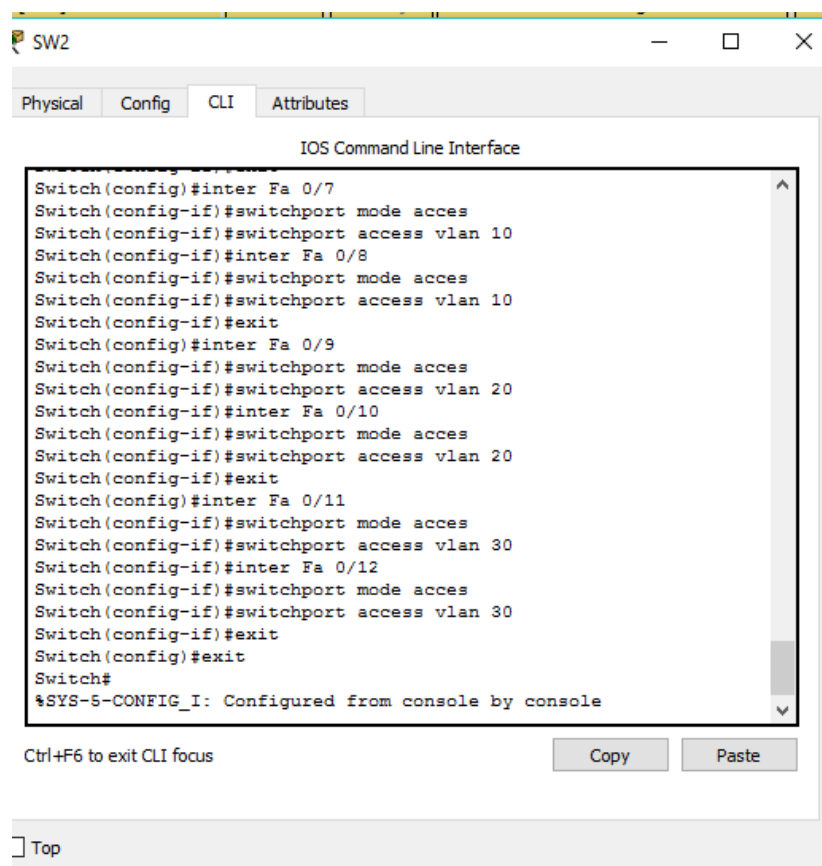


The screenshot shows a network switch configuration window titled 'SW2'. It has tabs for 'Physical', 'Config', 'CLI', and 'Attributes'. The 'CLI' tab is active, displaying the 'IOS Command Line Interface'. The terminal output shows the following commands and responses:

```
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)#exit
APPLY completed.
Exiting....
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name zodiak1
Switch(config-vlan)#exit
Switch(config)#vlan 20
Switch(config-vlan)#name zodiak2
Switch(config-vlan)#exit
Switch(config)#vlan 30
Switch(config-vlan)#name zodiak3
Switch(config-vlan)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console
```

At the bottom of the window, there is a text prompt 'Ctrl+F6 to exit CLI focus' and two buttons labeled 'Copy' and 'Paste'.

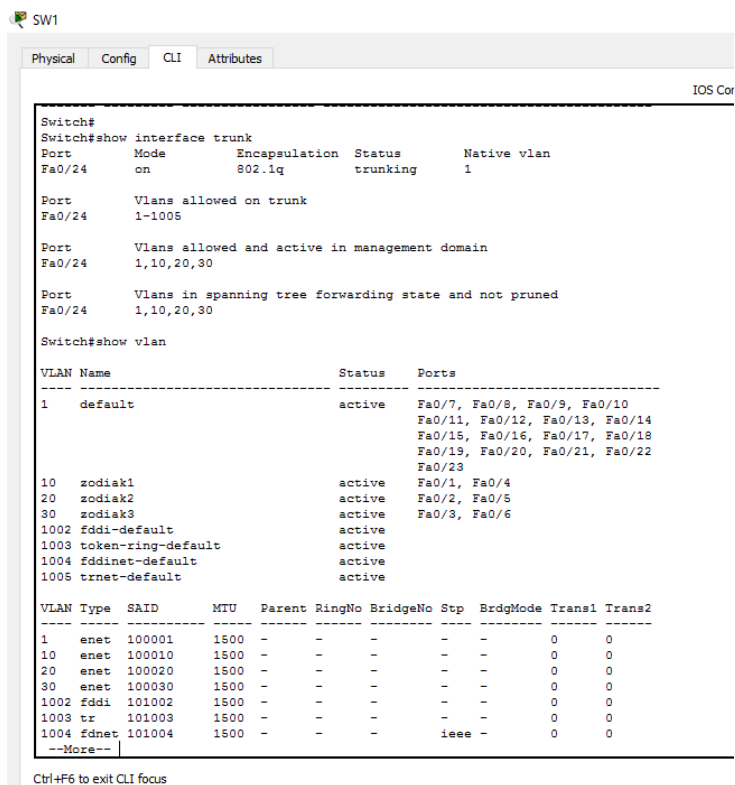


The screenshot shows the same 'SW2' configuration window, but now the 'Config' tab is active. The terminal output shows the configuration of interfaces Fa 0/7 through Fa 0/12:

```
Switch(config)#interface Fa 0/7
Switch(config-if)#switchport mode acces
Switch(config-if)#switchport access vlan 10
Switch(config-if)#interface Fa 0/8
Switch(config-if)#switchport mode acces
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface Fa 0/9
Switch(config-if)#switchport mode acces
Switch(config-if)#switchport access vlan 20
Switch(config-if)#interface Fa 0/10
Switch(config-if)#switchport mode acces
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#interface Fa 0/11
Switch(config-if)#switchport mode acces
Switch(config-if)#switchport access vlan 30
Switch(config-if)#interface Fa 0/12
Switch(config-if)#switchport mode acces
Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console
```

Below the terminal window, there is a 'Top' button and the same 'Ctrl+F6 to exit CLI focus' text and 'Copy'/'Paste' buttons as in the previous screenshot.

## 8. Langkah nomor 6 dan 7



The screenshot shows the configuration of a switch (SW1) in Packet Tracer. The CLI window displays the following commands and their outputs:

```
Switch#show interface trunk
Port      Mode      Encapsulation  Status      Native vlan
Fa0/24    on        802.1q         trunking    1

Port      Vlans allowed on trunk
Fa0/24    1-1005

Port      Vlans allowed and active in management domain
Fa0/24    1,10,20,30

Port      Vlans in spanning tree forwarding state and not pruned
Fa0/24    1,10,20,30

Switch#show vlan

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
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

VLAN Type  SAID      MTU    Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
-----
1    enet  1000001  1500   -       -       -    -     0      0
10   enet  1000010  1500   -       -       -    -     0      0
20   enet  1000020  1500   -       -       -    -     0      0
30   enet  1000030  1500   -       -       -    -     0      0
1002 fddi  1010002  1500   -       -       -    -     0      0
1003 tr   1010003  1500   -       -       -    -     0      0
1004 fdnet 1010004  1500   -       -       -    ieee  0      0
--More--
```

At the bottom of the window, it says "Ctrl+F6 to exit CLI focus".

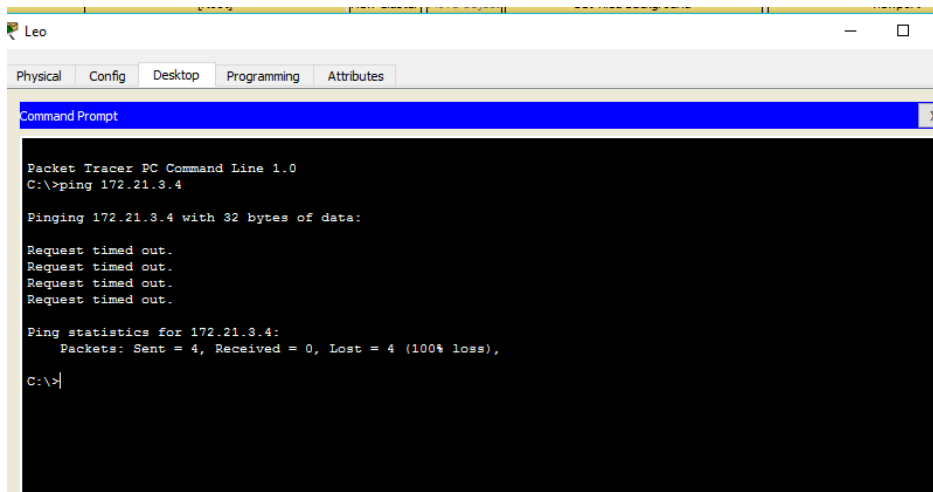
## TUGAS 7A

Hasil yaitu pada vlans allowed on trunk mempunyai nilai 1-1005 pada port Fa0/24. Vlans allowed and active in management domain memiliki nilai 1,10,20,30. Vlans in spanning tree forwarding state and not pruned memiliki nilai 1,10,20,30.

9. Klik PC leo lalu buka command prompt untuk nge ping ke PC pisces, ketik “ping 172.21.3.3”

## TUGAS 8A

Hasil ping leo ke ping pisces request timed out karena subnet nya berbeda



The screenshot shows the command prompt of PC Leo in Packet Tracer. The output of the ping command is as follows:

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.3.4

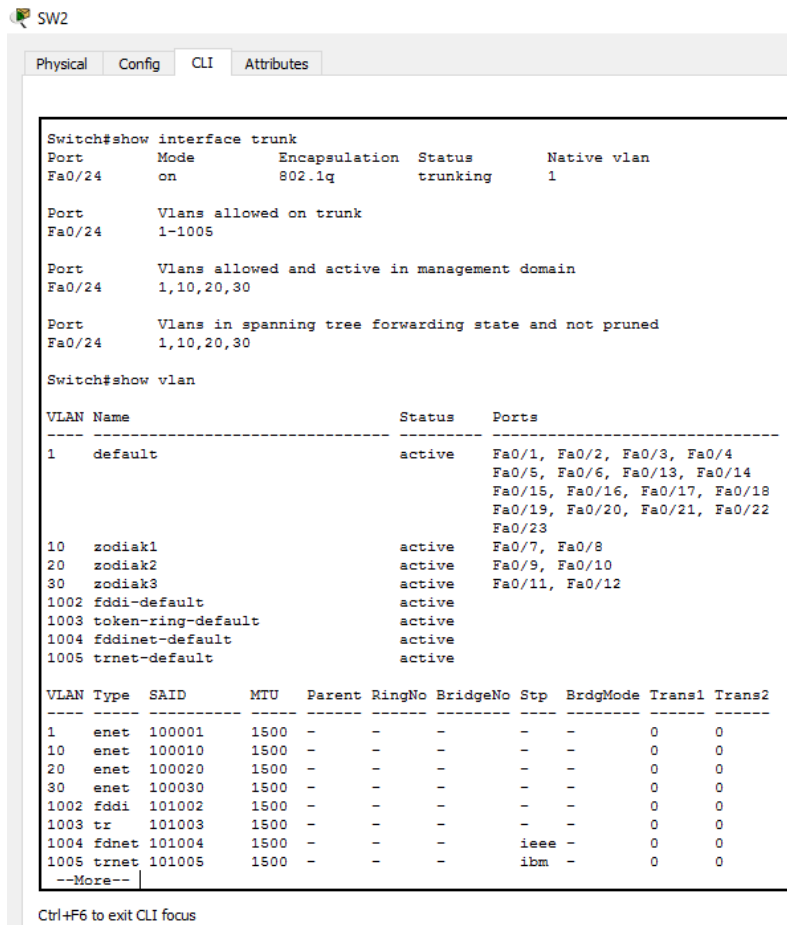
Pinging 172.21.3.4 with 32 bytes of data:

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:\>|
```

## 10. Untuk langkah 9 dan 10



SW2

Physical Config CLI Attributes

```
Switch#show interface trunk
Port      Mode      Encapsulation  Status      Native vlan
Fa0/24    on        802.1q         trunking    1

Port      Vlans allowed on trunk
Fa0/24    1-1005

Port      Vlans allowed and active in management domain
Fa0/24    1,10,20,30

Port      Vlans in spanning tree forwarding state and not pruned
Fa0/24    1,10,20,30

Switch#show vlan
VLAN Name                Status      Ports
-----
1    default              active      Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                           Fa0/5, Fa0/6, Fa0/13, Fa0/14
                                           Fa0/15, Fa0/16, Fa0/17, Fa0/18
                                           Fa0/19, Fa0/20, Fa0/21, Fa0/22
                                           Fa0/23
10   zodiak1              active      Fa0/7, Fa0/8
20   zodiak2              active      Fa0/9, Fa0/10
30   zodiak3              active      Fa0/11, Fa0/12
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
1002 fddi  101002    1500   -       -       -    -    -       0       0
1003 tr   101003    1500   -       -       -    -    -       0       0
1004 fdnet 101004    1500   -       -       -    ieee -       0       0
1005 trnet 101005    1500   -       -       -    ibm  -       0       0
--More--
```

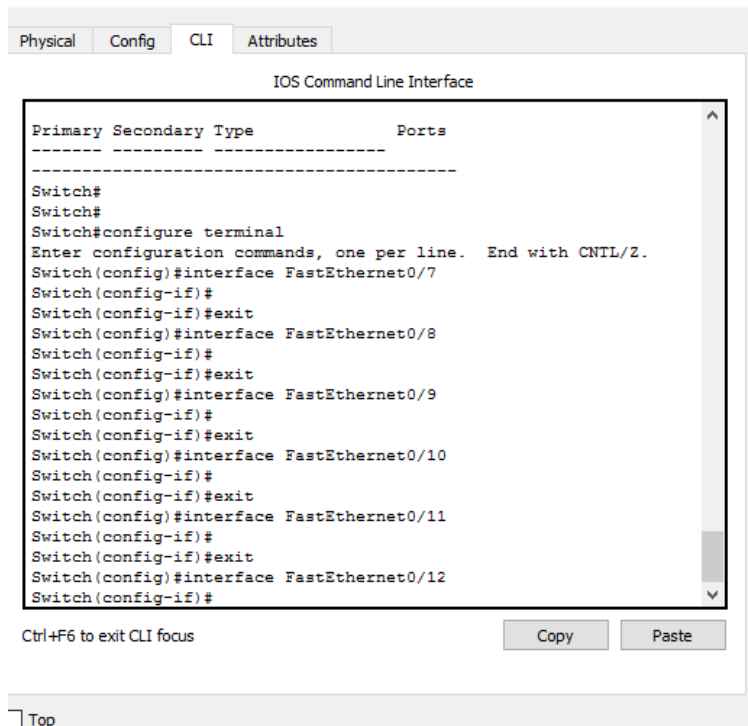
Ctrl+F6 to exit CLI focus

## TUGAS 10A

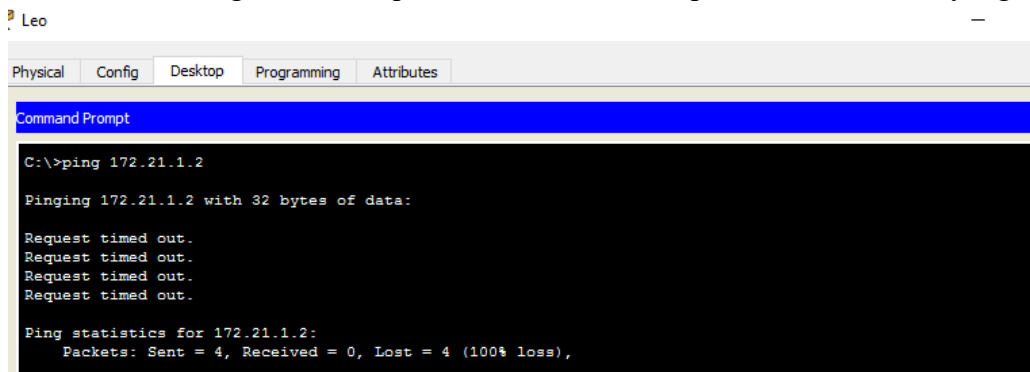
Hasil yaitu pada vlans allowed on trunk mempunyai nilai 1-1005 pada port Fa0/24. Vlans allowed and active in management domain memiliki nilai 1,10,20,30. Vlans in spanning tree forwarding state and not pruned memiliki nilai 1,10,20,30.

Memiliki status trunking mode on, encapsulation 802.1q

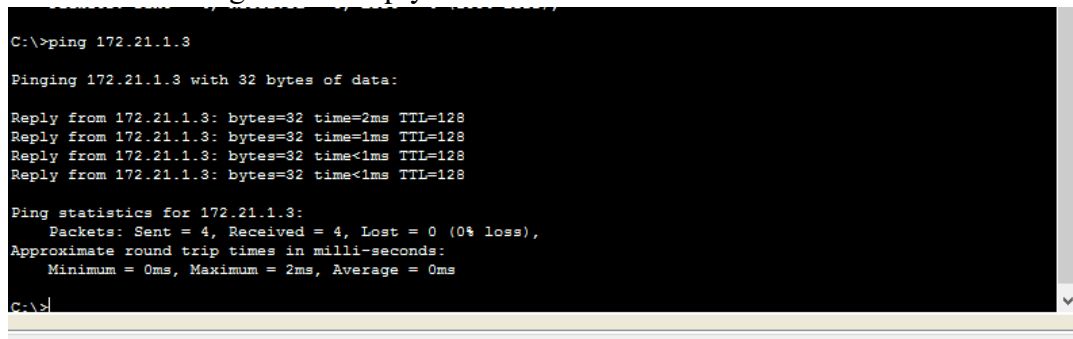
## 11. Untuk langkah 11



12. Klik PC leo lalu buka command prompt untuk nge ping ke PC aries, ketik “ping 172.21.1.2”. menghasilkan request timed out, karena permintaan koneksi yang lama



13. Klik PC leo lalu buka command prompt untuk nge ping ke PC aquarius, ketik “ping 172.21.1.3”. menghasilkan reply





14. Klik PC leo lalu buka command prompt untuk nge ping ke PC pisces, ketik “ping 172.21.3.4”. menghasilkan request timed out

```
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:\>|
```

Top

15. Klik PC libra lalu buka command prompt untuk nge ping ke PC cancer, ketik “ping 172.21.2.3”. menghasilkan request timed out

Libra

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.2.3

Pinging 172.21.2.3 with 32 bytes of data:

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

Ping statistics for 172.21.2.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

16. Klik PC libra lalu buka command prompt untuk nge ping ke PC leo, ketik “ping 172.21.1.1”. menghasilkan request timed out

```
C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

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

Ping statistics for 172.21.1.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>|
```

## TUGAS 12A

Hasil ping PC leo ke PC pisces request timed out permintaan koneksi yang lama dan subnetnya berbeda.