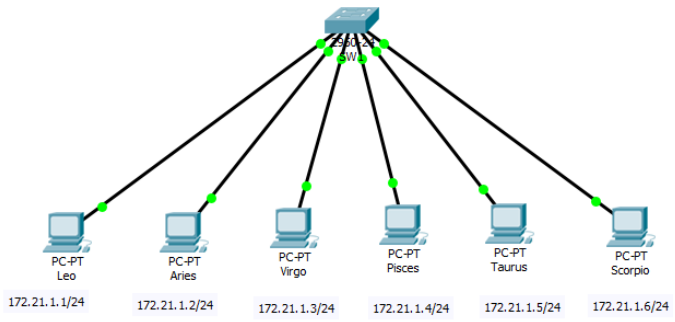
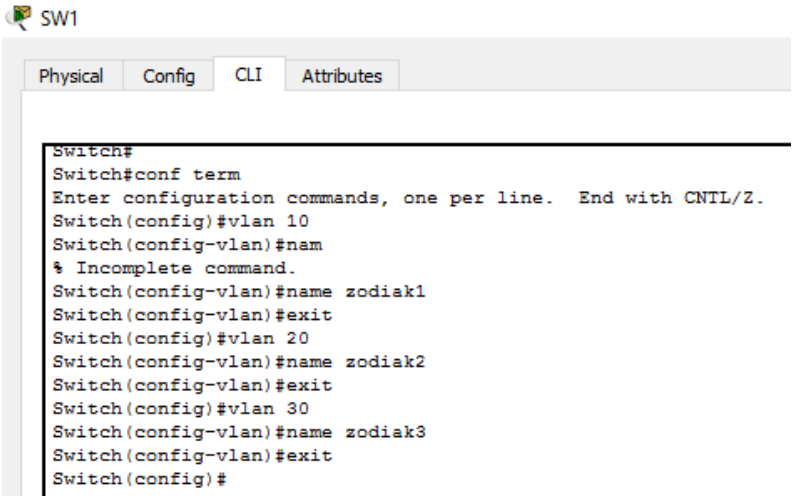
Nama : Fitri Cahya Kusumawati
NIM : L200170110
Kelas : C
Modul : 4 Kegiatan menjadi tugas

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 confiq, lalu switching, lalu VLAN, kemudian klik Add
6. Buat 3 VLAN dengan nama zodiak1, zodiak2, zodiak 3



7. Pada mode confiq, 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

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8. Pada mode priviged, 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
Switch#
```

Ctrl+F6 to exit CLI focus

9. Pada mode priviged, 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
```

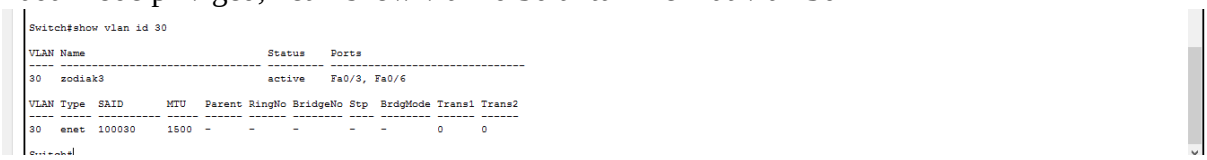
10. Pada mode priviged, ketik show vlan id 20 untuk melihat vlan 20

```
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 priviged, 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  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------
30   enet  100030     1500  -      -      -        -    -        0      0

Switch#
```

TUGAS 6A:

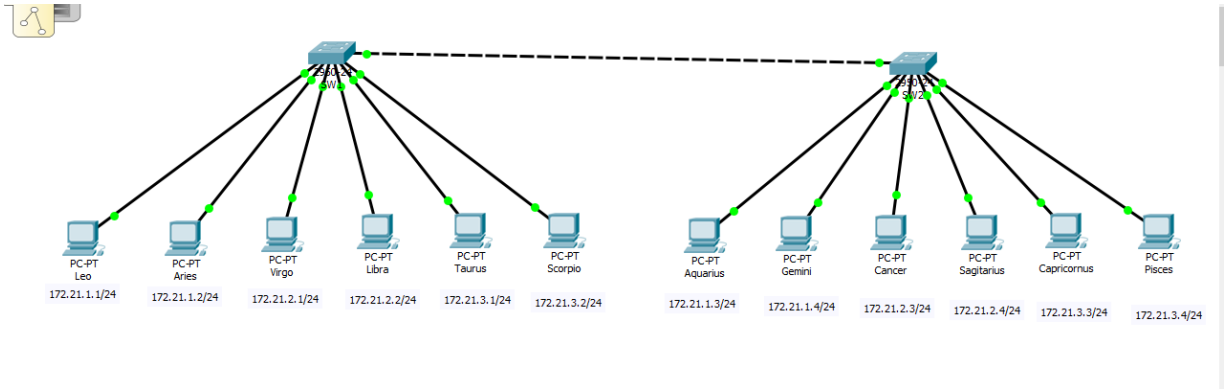
Nomor VLAN	Nama VLAN	Port	Status
10	Zodiak1	active	Fa0/1, Fa0/4

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

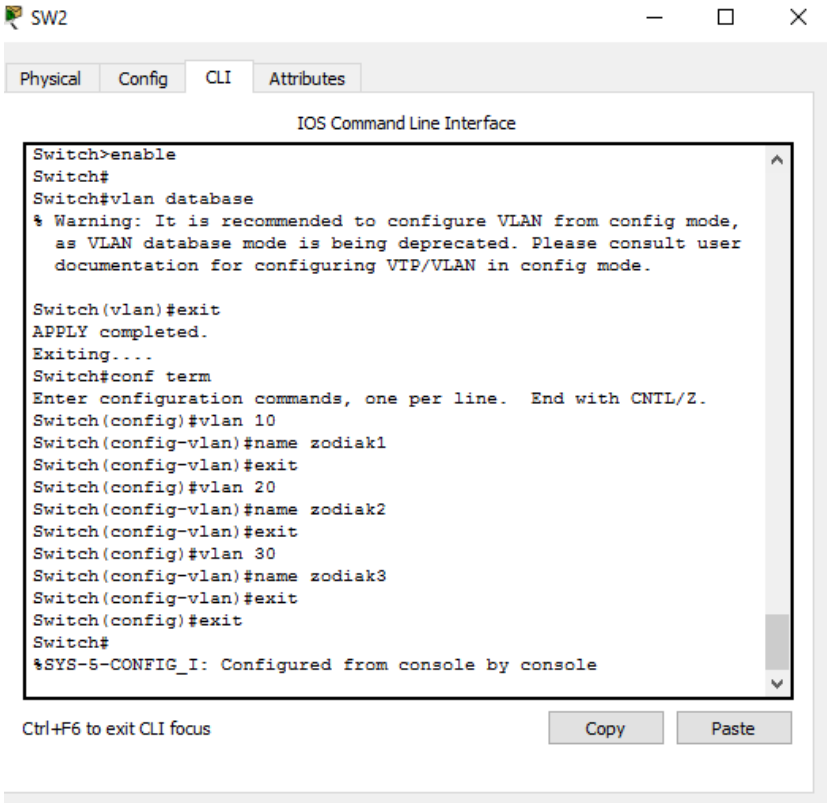
Nomor VLAN	Nama VLAN	Port	Status
30	Zodiak3	active	Fa0/3, Fa0/6

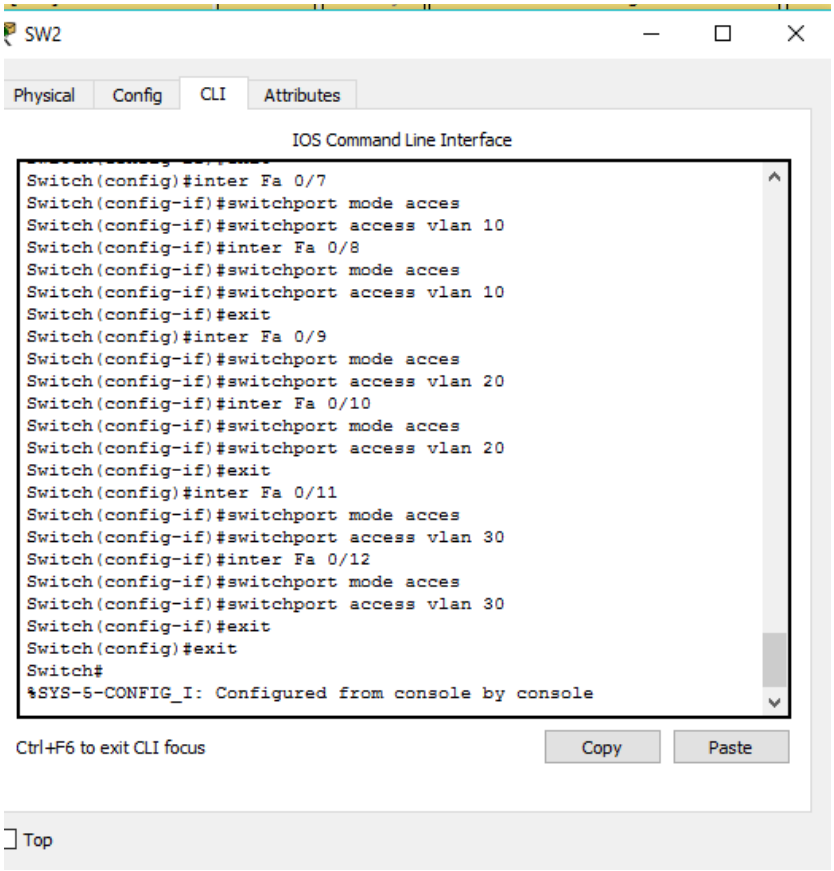
KEGIATAN 2

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)

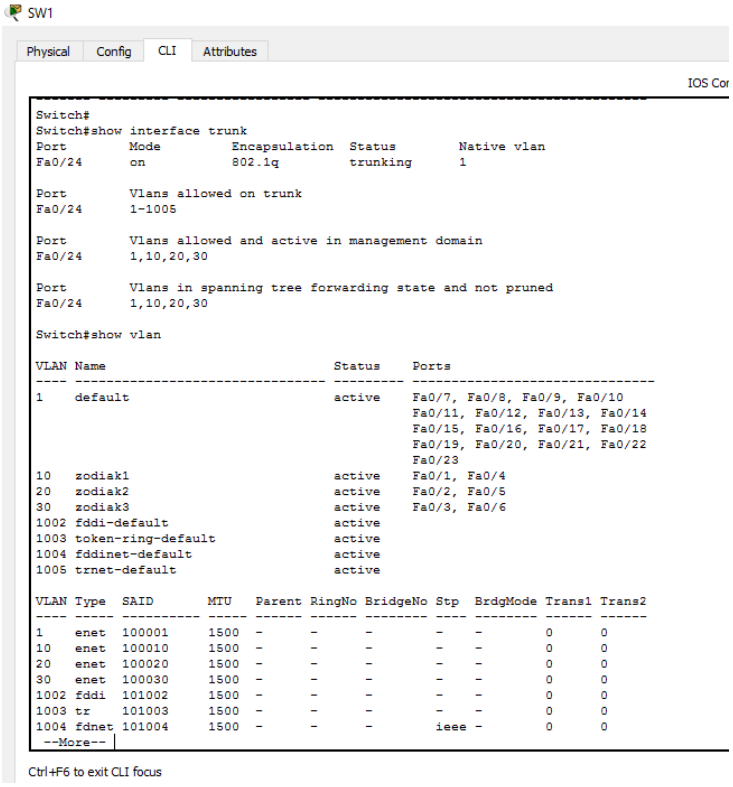


6. Untuk SW 1 sudah terdapat pada kegiatan 1
7. Untuk SW 2 :





8. Langkah nomor 6 dan 7



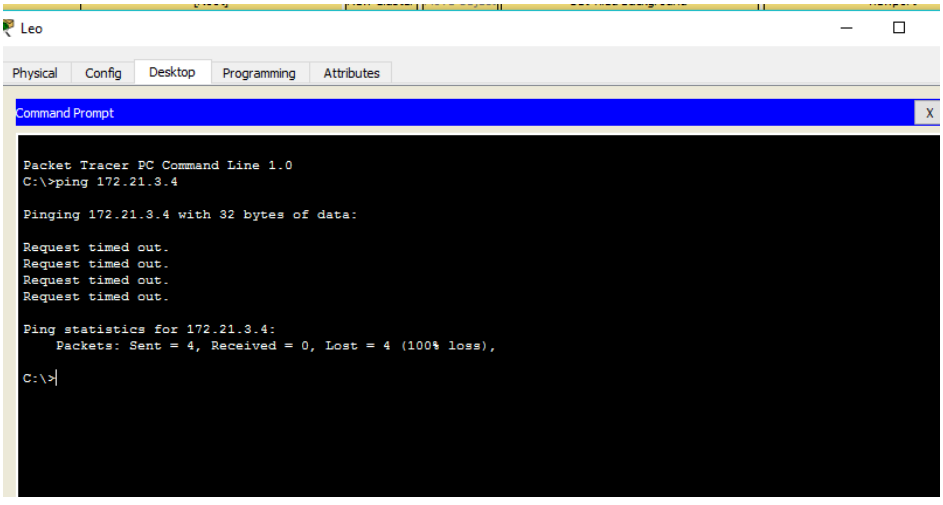
TUGAS 7A

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 forwading state and not pruned memiliki nilai 1,10,20,30.

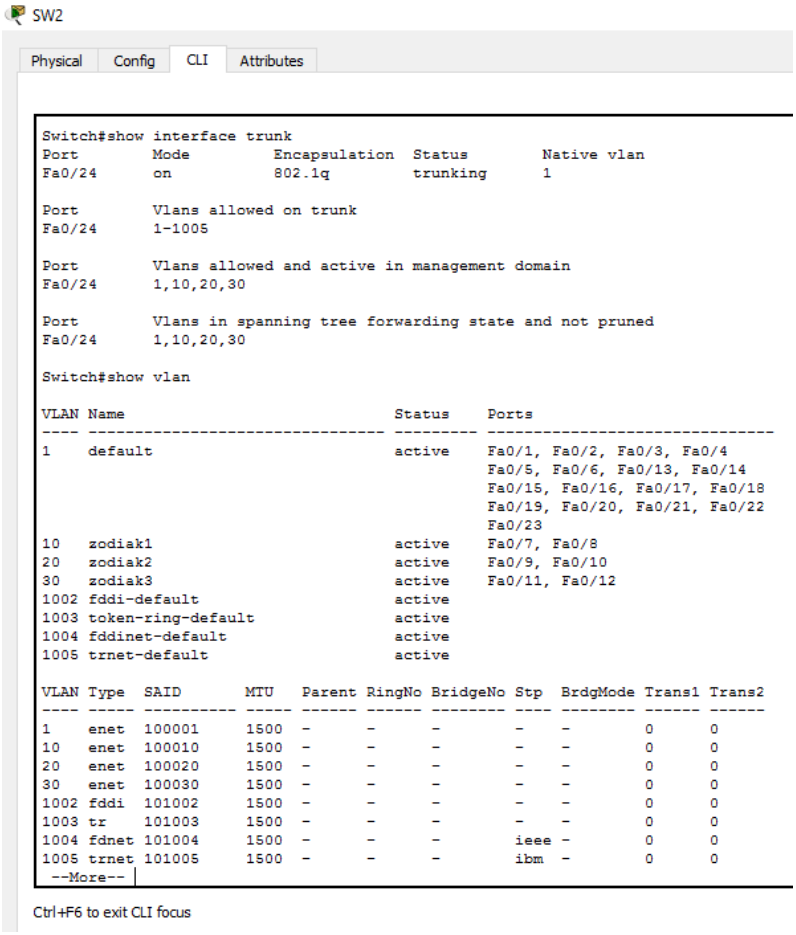
9. Klik PC leo lalu buka command prompt untuk nge ping ke PC pisces, ketik "ping 172.21.3.3"

TUGAS 8A

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



10. Untuk langkah 9 dan 10

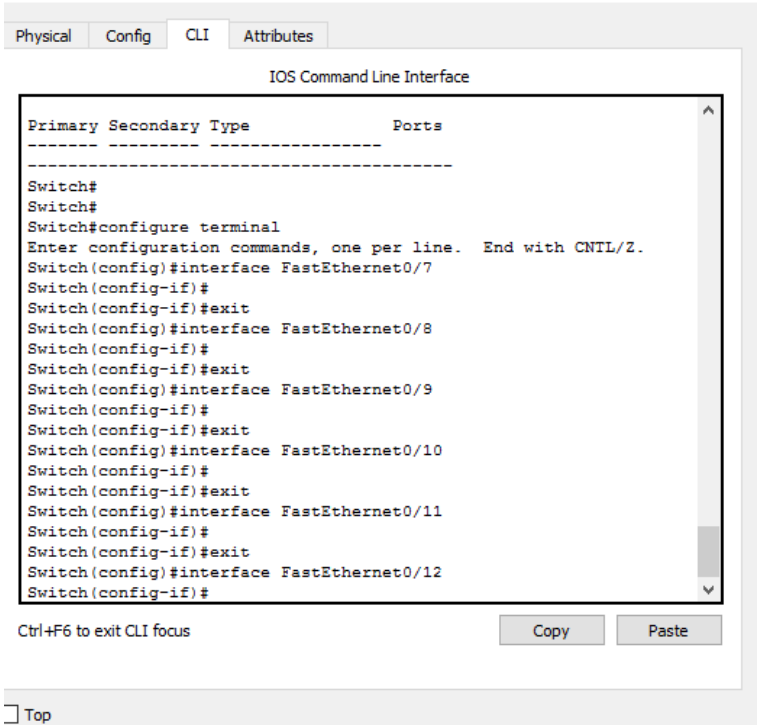


TUGAS 10A

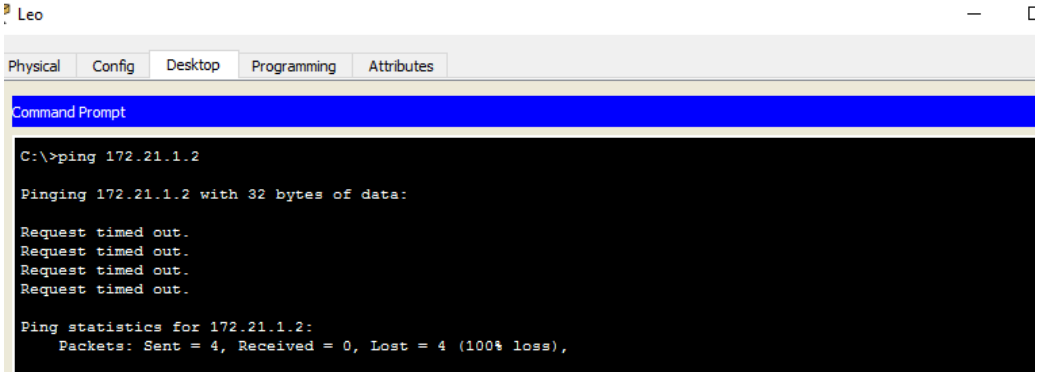
Hasil yaitu pada vlans allowed on trunk mempunyai nilai 1-1005 pada port Fa0/24. Vlans allowed and active in management domain memiliki nilai 1,10,20,30. Vlans in spanning tree forwading state and not pruned memiliki nilai 1,10,20,30.

Memiliki status trunking mode on, encapsulation 802.1q

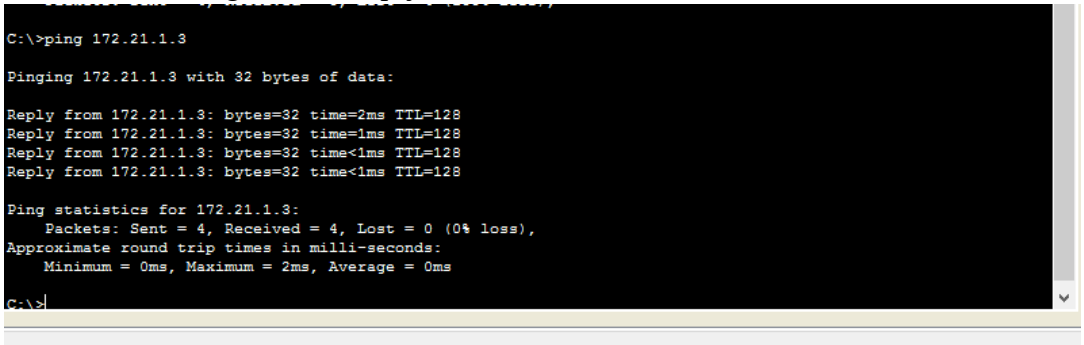
11. Untuk langkah 11



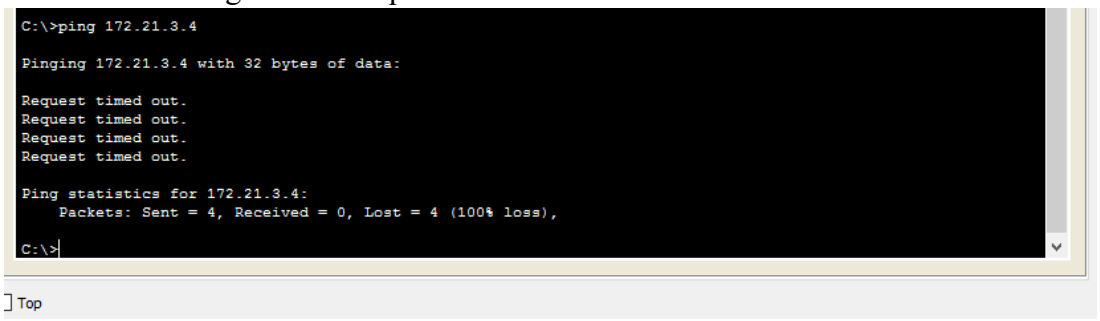
12. Klik PC leo lalu buka command prompt untuk nge ping ke PC aries, ketik "ping 172.21.1.2". menghasilkan request timed out, karena permintaan koneksi yang lama



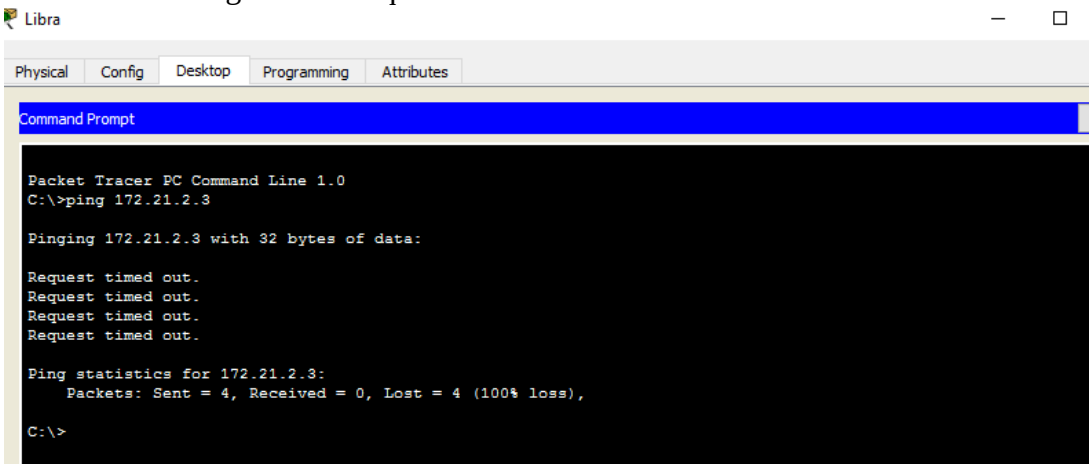
13. Klik PC leo lalu buka command prompt untuk nge ping ke PC aquarius, ketik "ping 172.21.1.3". menghasilkan reply



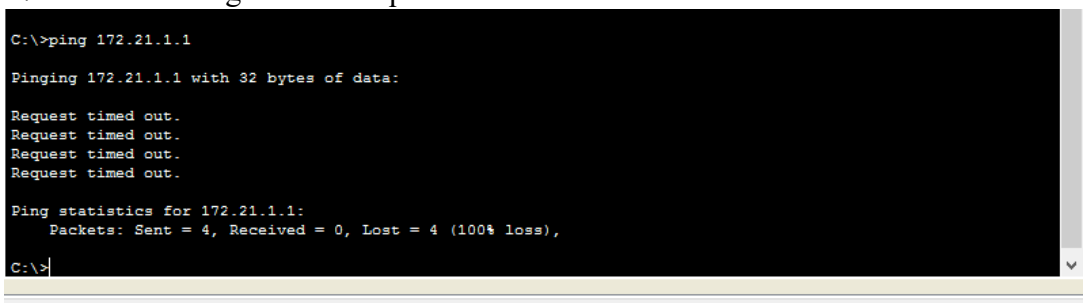
14. Klik PC leo lalu buka command prompt untuk nge ping ke PC pisces, ketik “ping 172.21.3.4”. menghasilkan request timed out



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



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



TUGAS 12A

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