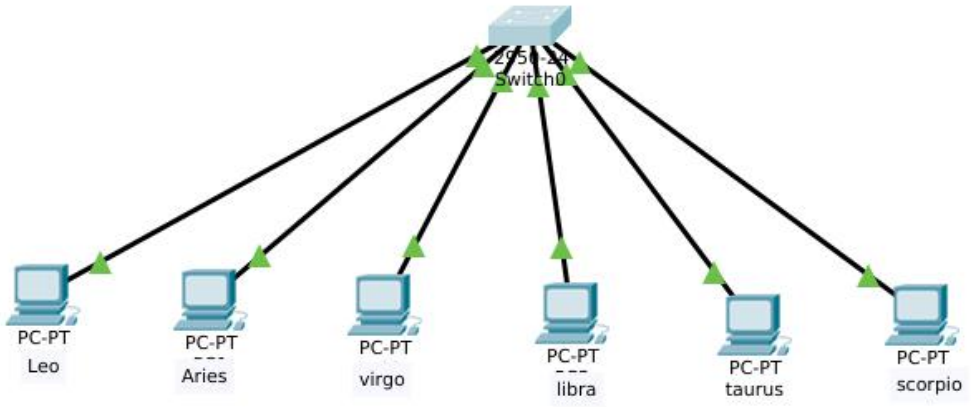
Nama : Zulfa Fajrul falah
Nim : L200170149 / D

LAPORAN PRAKTIKUM JARINGAN KOMPUTER
MODUL KE 4

Kegiatan 1

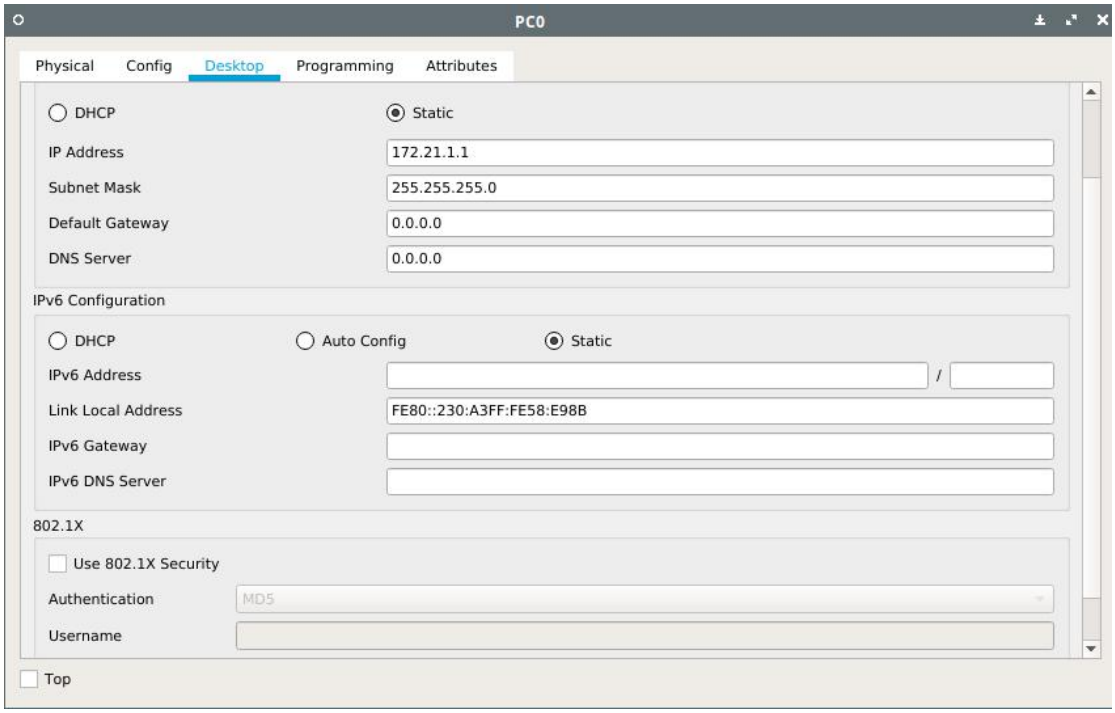
1. Buat topologi di packet tracer

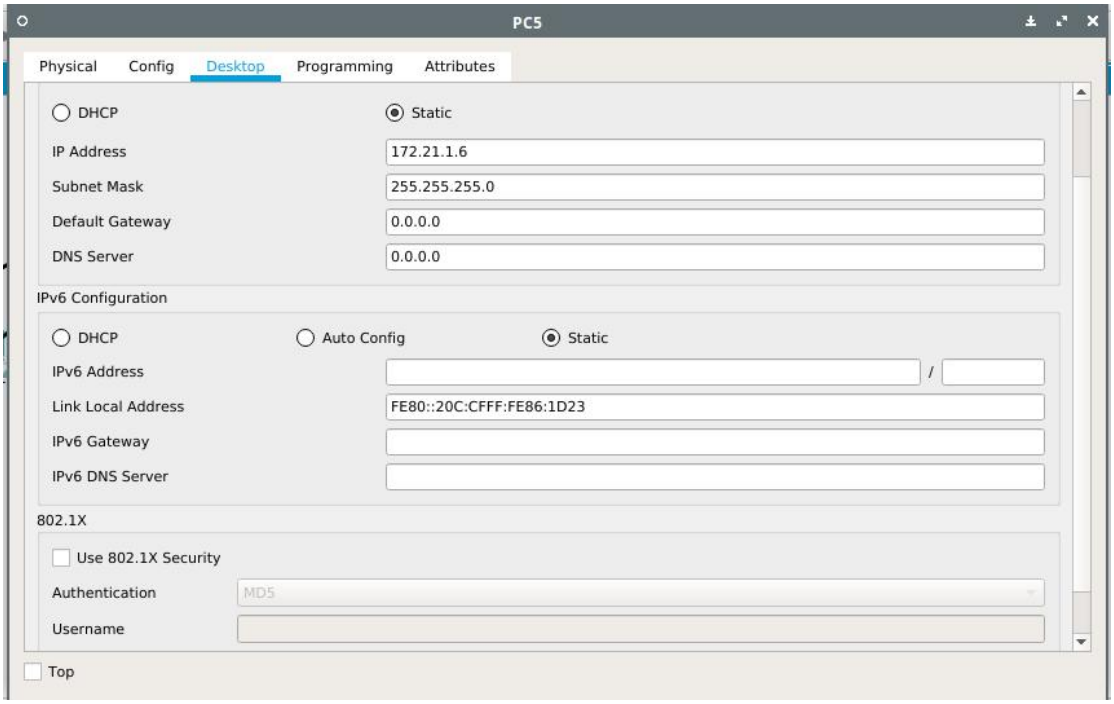


2. Setting ip pada masing masing komputer

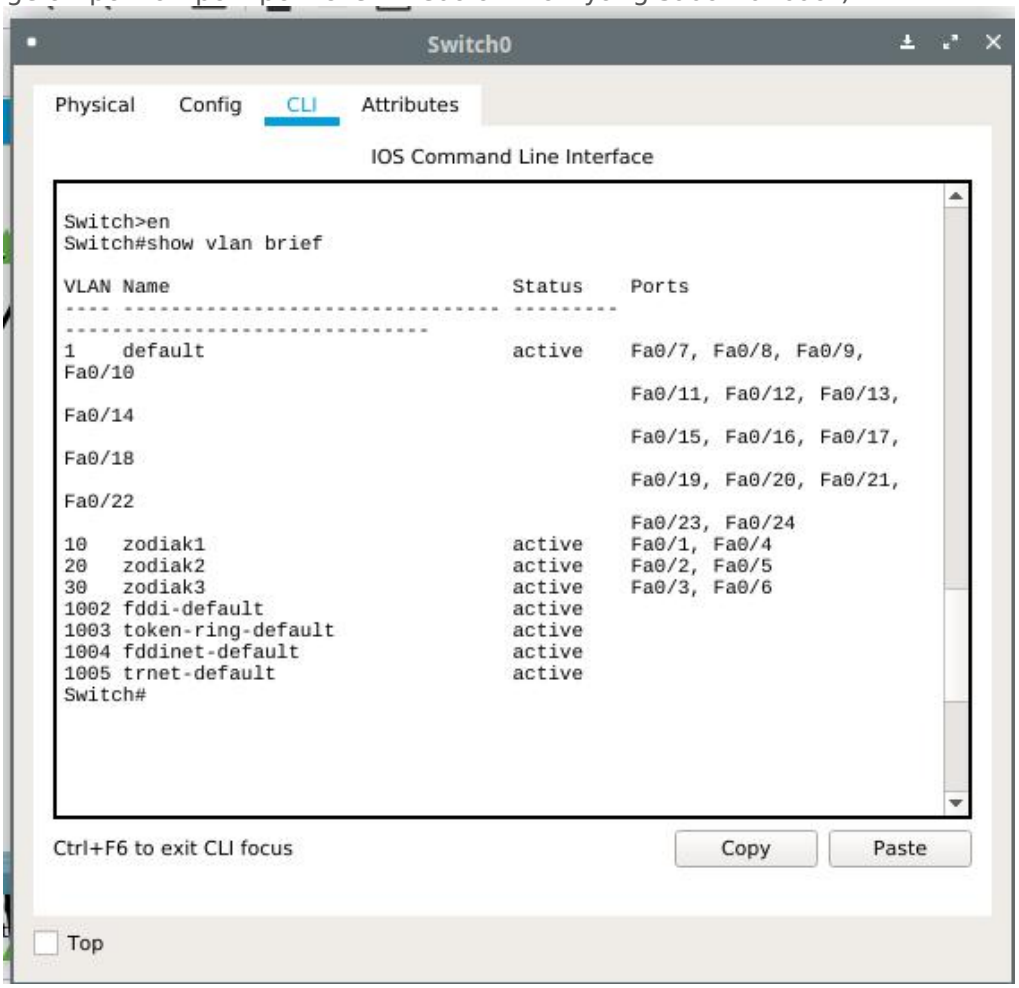
Dengan ketintuan ip

Leo : 172.21.1.1/24
Arie : 172.21.1.2/24
Virgo:172.21.1.3/24
Libra: 172.21.1.4/24
Taurus:172.21.1.5/24
Scorpio :172.21.1.6/24

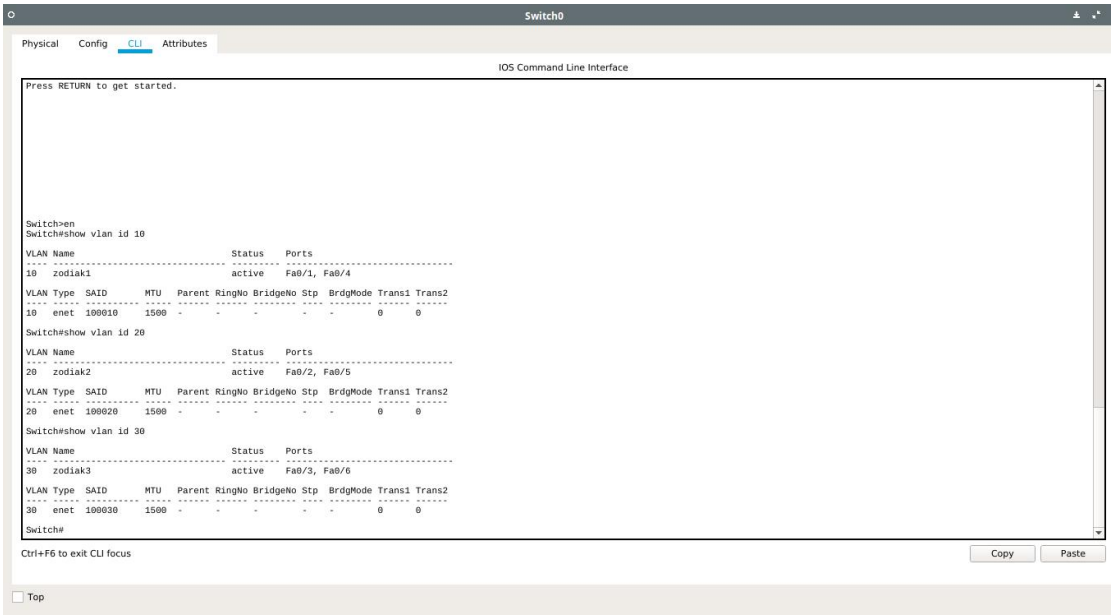




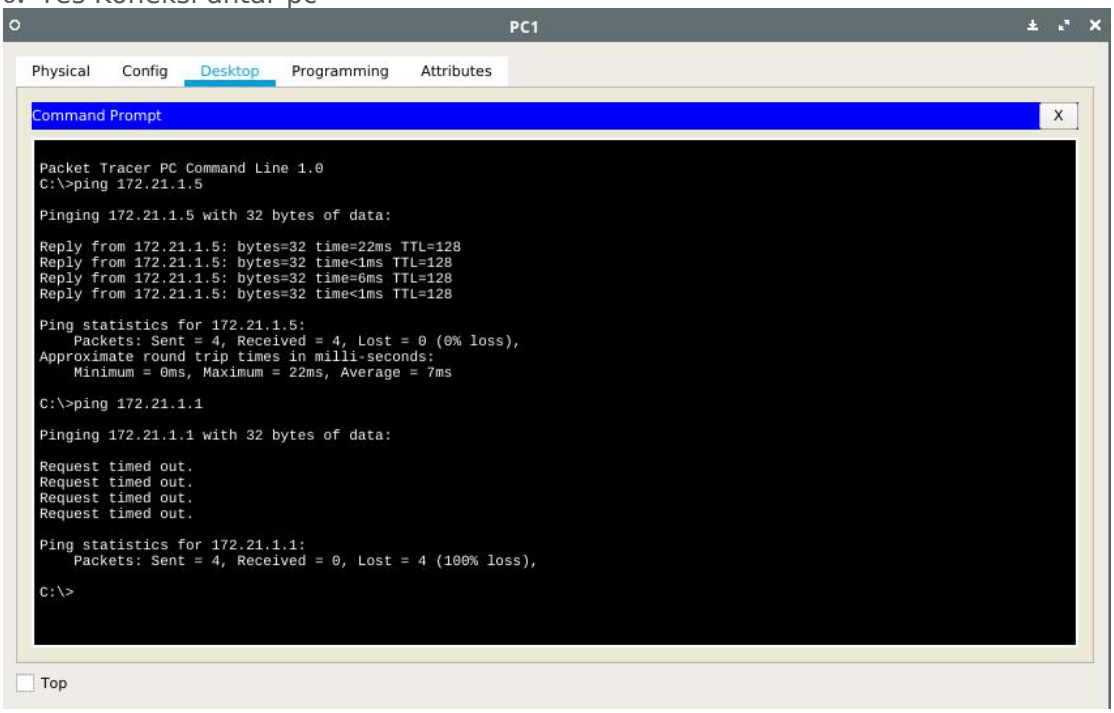
3. Konfigurasi Vlan pada switch1 (Membuat Vlan 10, 20, 30 dan memasukan atau mengelompokkan port-port client kedalan vlan yang sudah di buat)



4. Mengetas Vlan pada Switch (Vlan zodiak1, zodiak2, zodiak3)



5. Tes Koneksi antar pc

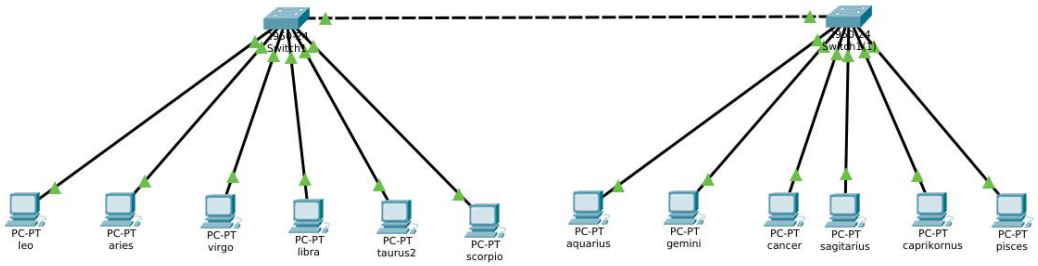


Ket :

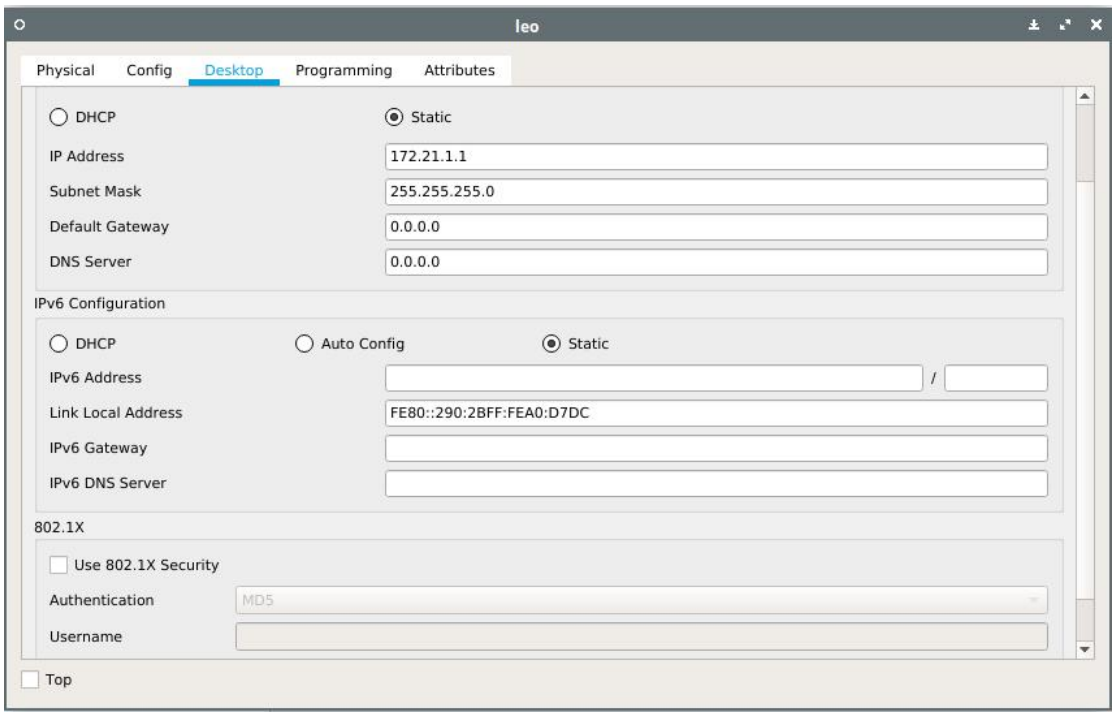
Ping ke ip 172.21.1.5 berhasil karena masih dalam satu vlan yang sama yaitu zodiak2, tetapi ping ke ip 172.21.1.1 menghasilkan RTO dikarenakan sudah berbeda vlan.

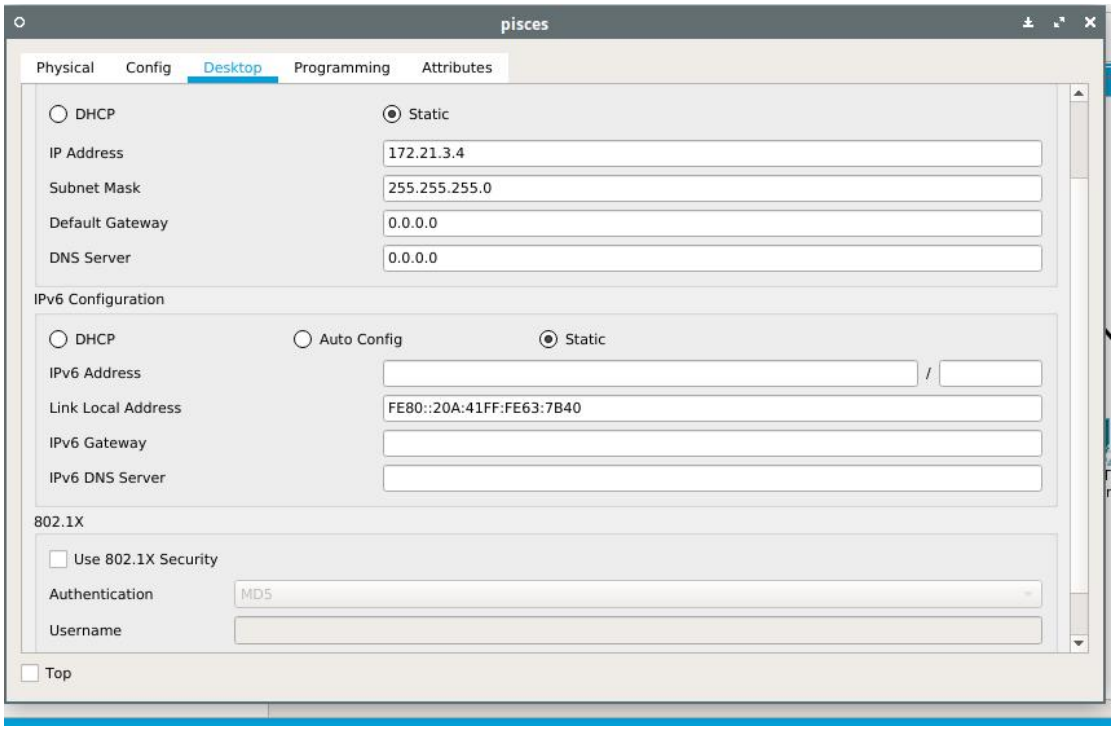
Kegiatan 2

1. Buat topologi di packet tracer

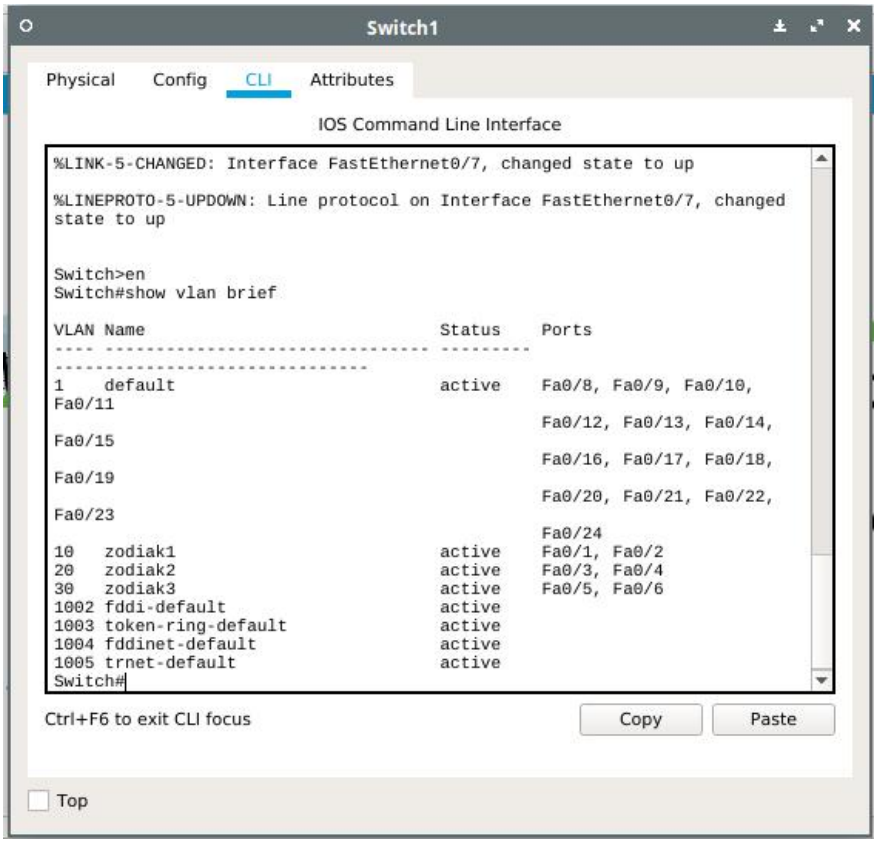


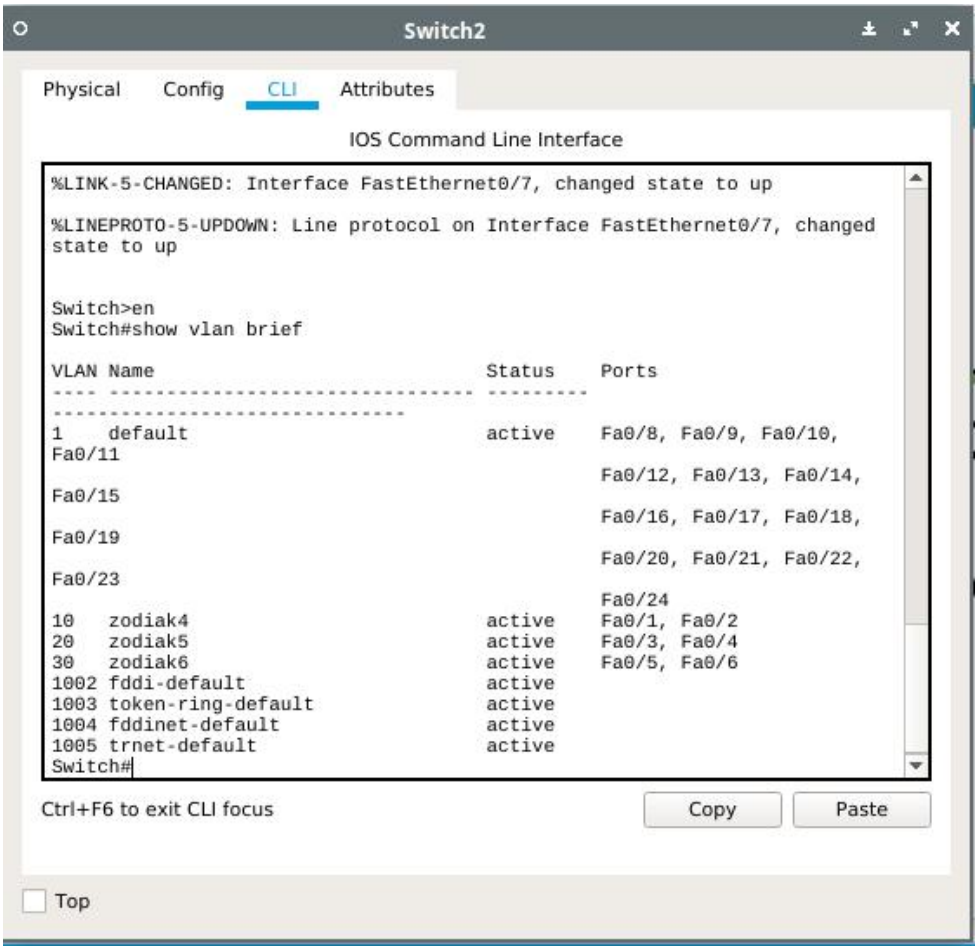
2. Seting ip sesuai ketentuan berikut
   - Leo : 172.21.1.1/24
   - Aries : 172.21.1.2/24
   - Virgo : 172.21.2.1/24
   - Libra : 172.21.2.2/24
   - Taurus : 172.21.3.1/24
   - Scorpio: 172.21.3.2/24
   - Aquarius : 172.21.1.3/24
   - Gemini: 172.21.1.4/24
   - Cancer : 172.21.2.3/24
   - Sagitarius : 172.21.2.4/24
   - Capricornus : 172.21.3.3/24
   - Pisces : 172.21.3.4/24





3. Konfigurasi vlan di switch 1 dan switch 2, kemuadian masukan port-port client di dalam vlan yang telah kita buat





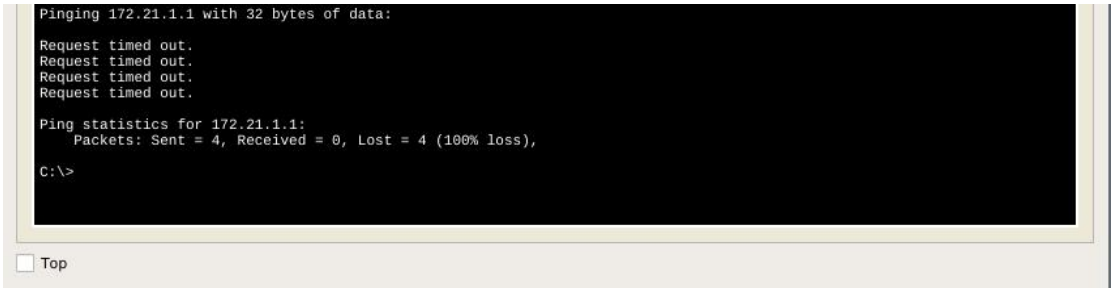
4. Konfigutasi Trunking pada switch 1 (pengecekan)

```
Switch#show interfaces fa0/7 switchport
Name: Fa0/7
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
Appliance trust: none


Switch#
```

Tugas 7A : Hasil dari konfigurasi Trunk di switch satu dan switch dua adalah mengaktifkan switch port fa 0/7 (port yang digunakan untuk truk) dan Administrative Mode mejadi trunk serta Operational Mode trunk

8. Tek koneksi PC



Tugas 8A : Hasil dari pc leo ke pc pisces berstatus TRO di karenakan belum di konfigurasinya Trunking di switch 2

9. KOnfigurasi Trunking pada Switch 2

```
Switch#show interfaces fa0/7 switchport
Name: Fa0/7
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
Appliance trust: none

Switch#
```

10. Mengecek hasil konfigurasi vlan

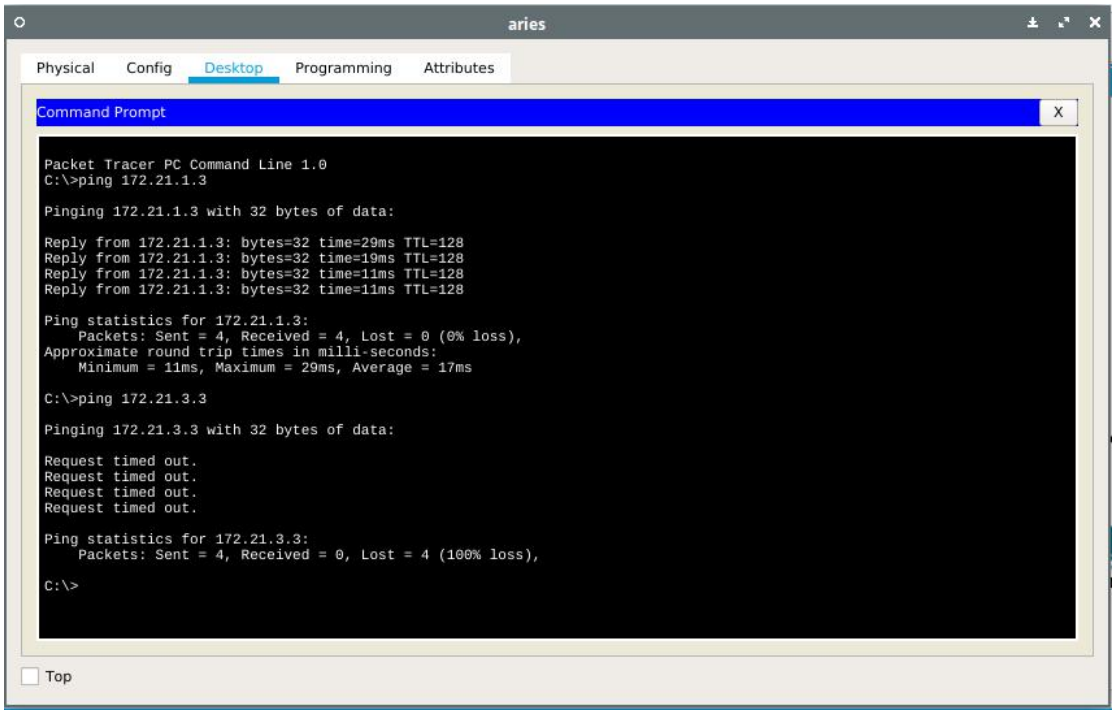
```
Switch>en
Switch#show vlan

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   zodiak4                          active    Fa0/1, Fa0/2
20   zodiak5                          active    Fa0/3, Fa0/4
30   zodiak6                          active    Fa0/5, 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  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--
```

11. Tes koneksi Pc client kembali



Ket :
Dilakukan ping ke ip 172.21.1.3 (antar switch) dan berstatus behasil, karena memiliki zona vlan yang sama yaitu vlan 10. Tetapi ping ke ip 172.21.3.3 berstatus TRO karea memiliki zona Vlan yang berbeda antara vlan 10 dan vlan 30.

Tugas 12A : Hasil tes koneksi (Ping) antara pc leo dengan pc pisces berhasil karena port fa 0/7 di switch 2 telah di konfigurasi Trunk sehingga antara switch 1 dan switch 2 dapat berkomunikasi.