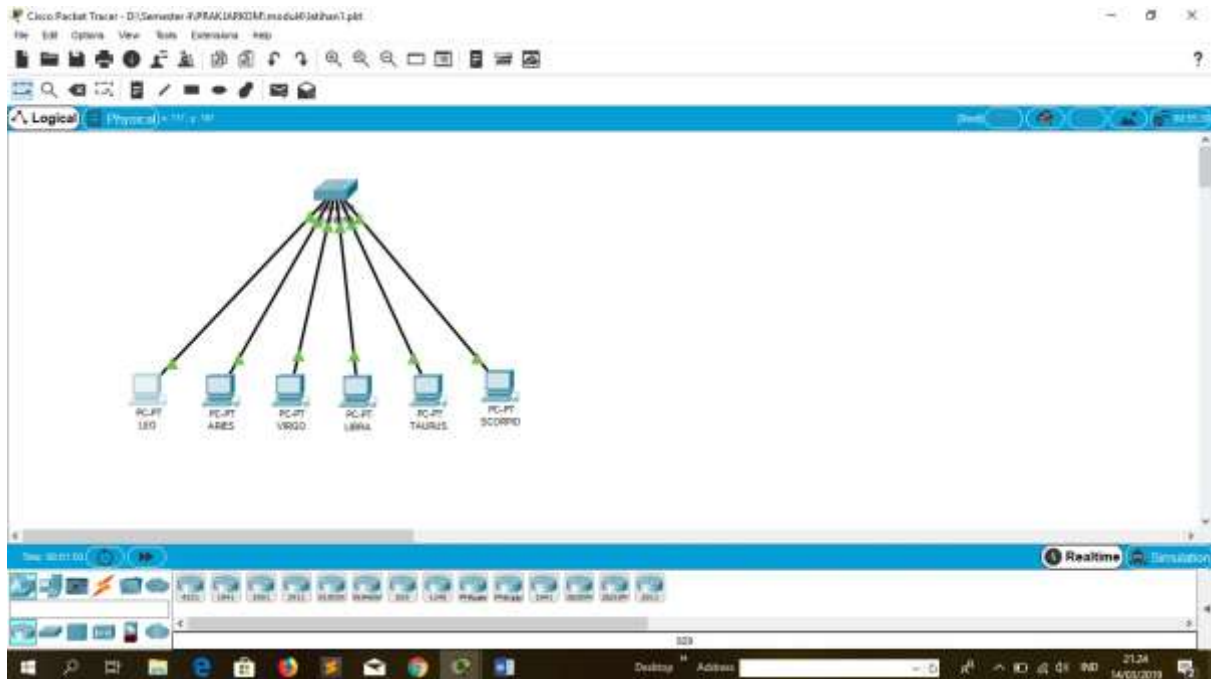


Nama:Naufal Rusada

NIM :L200170034

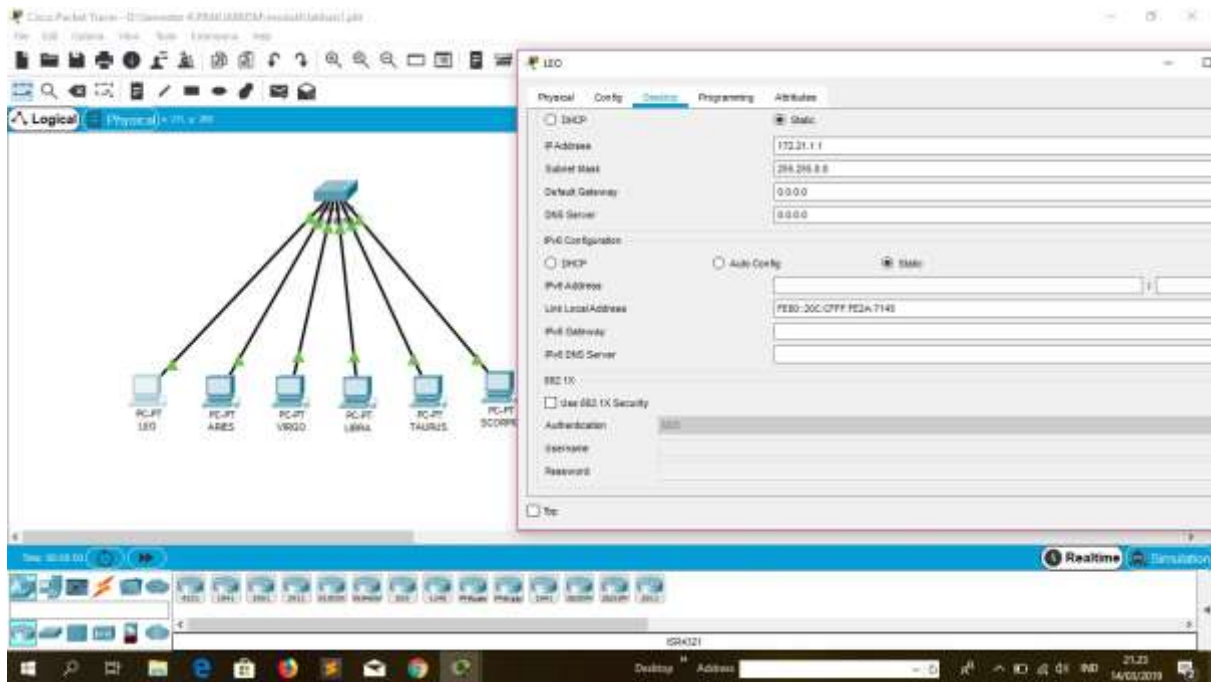
Kelas: A



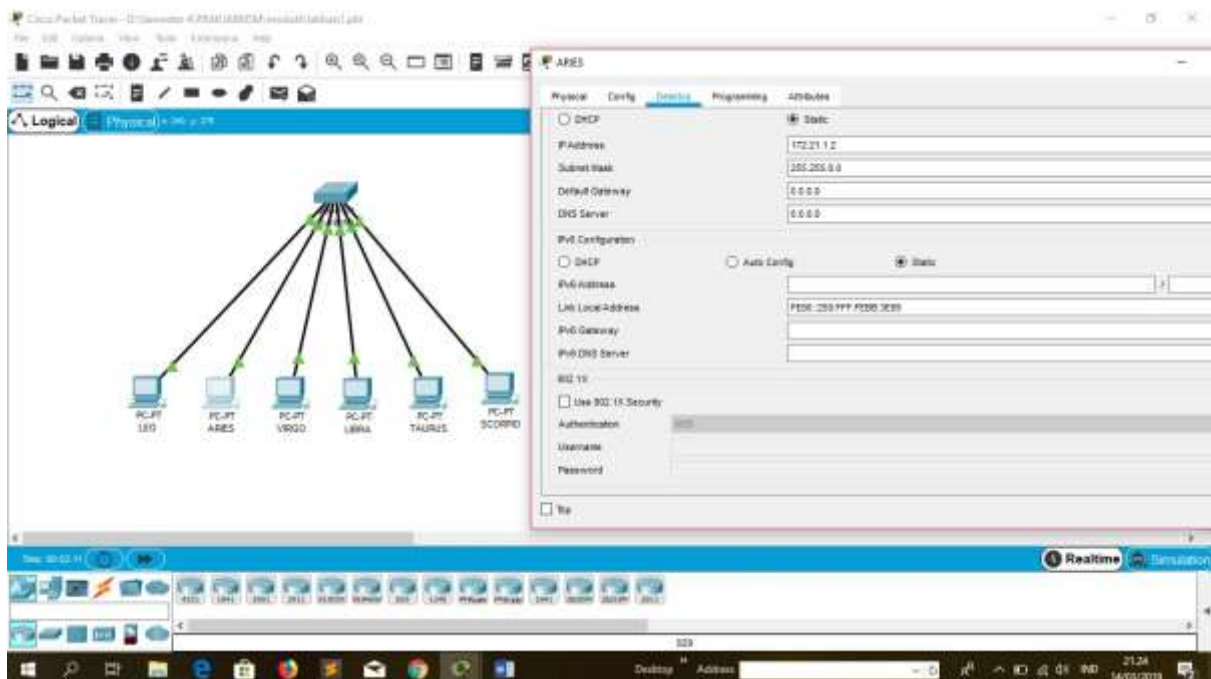
Menggunakan packet tracer membuat topologi seperti gambar di atas menggunakan switch. Dengan memberikan nama masing-masing perangkat dengan:

Pada SW1 (Switch)

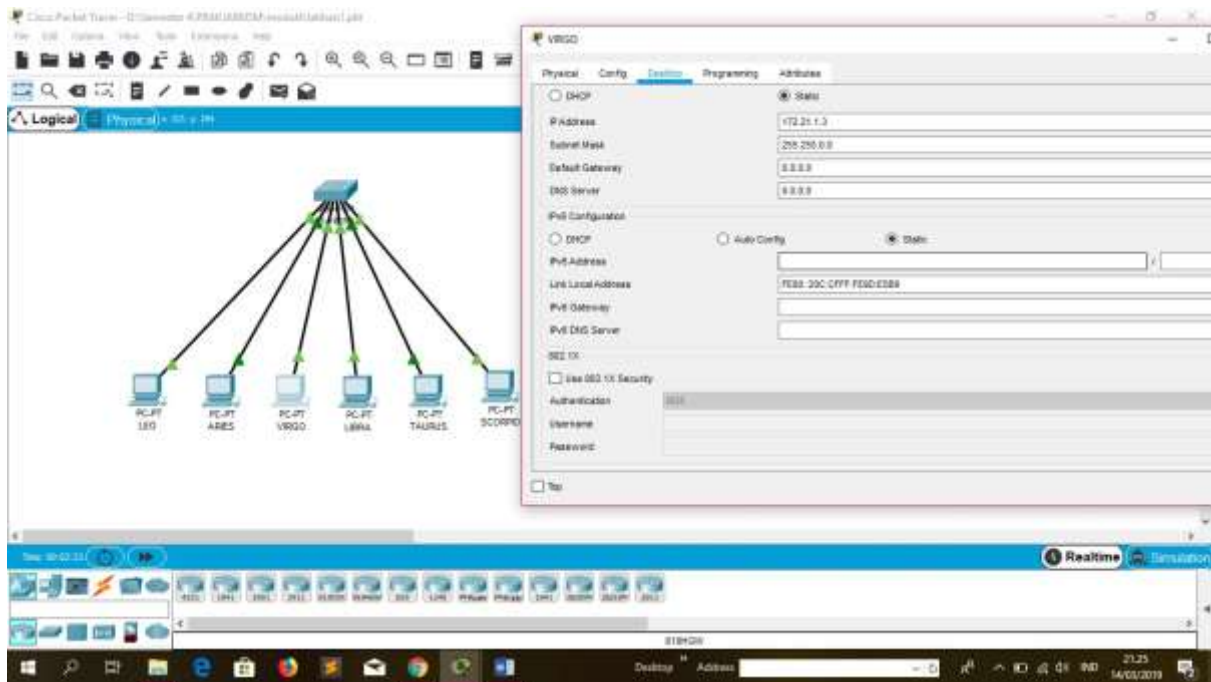
- Leo (PC0)
- Aries (PC1)
- Virgo (PC2) ▪ Pisces (PC3)
- Taurus (PC4), dan
- Scorpio (PC5)



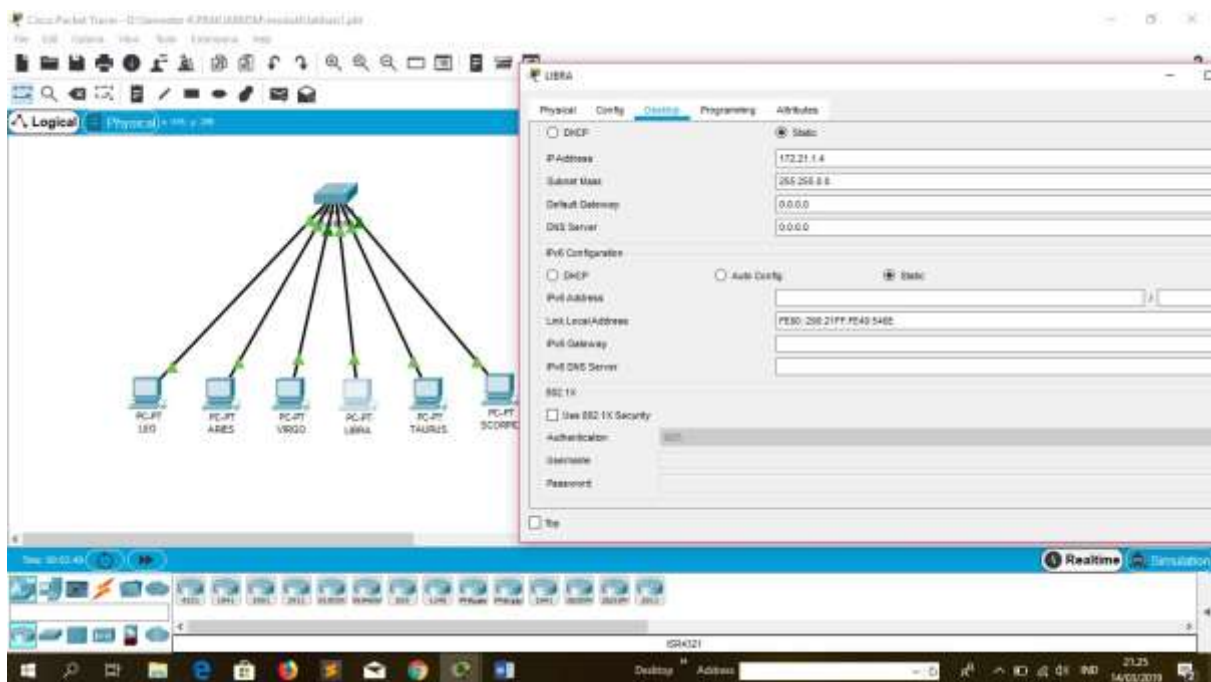
Memberikan IP Address pada PC0/LEO "172.21.1.1"



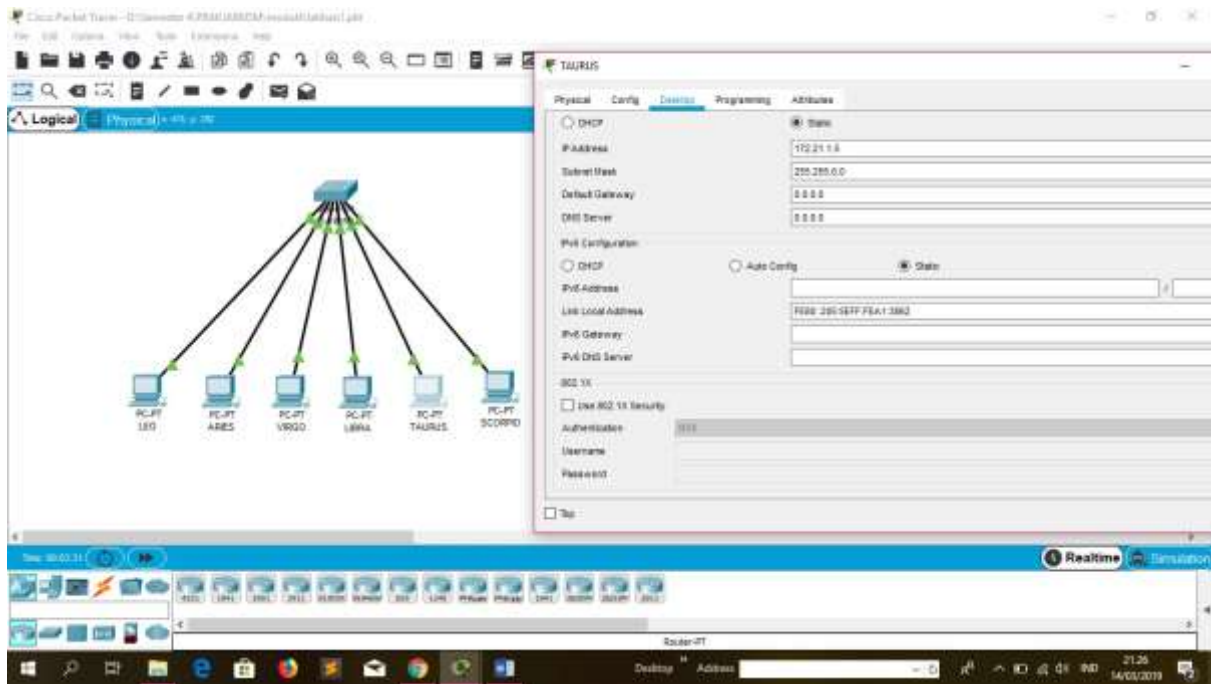
Memberikan IP Address pada PC1/ARIES "172.21.1.2"



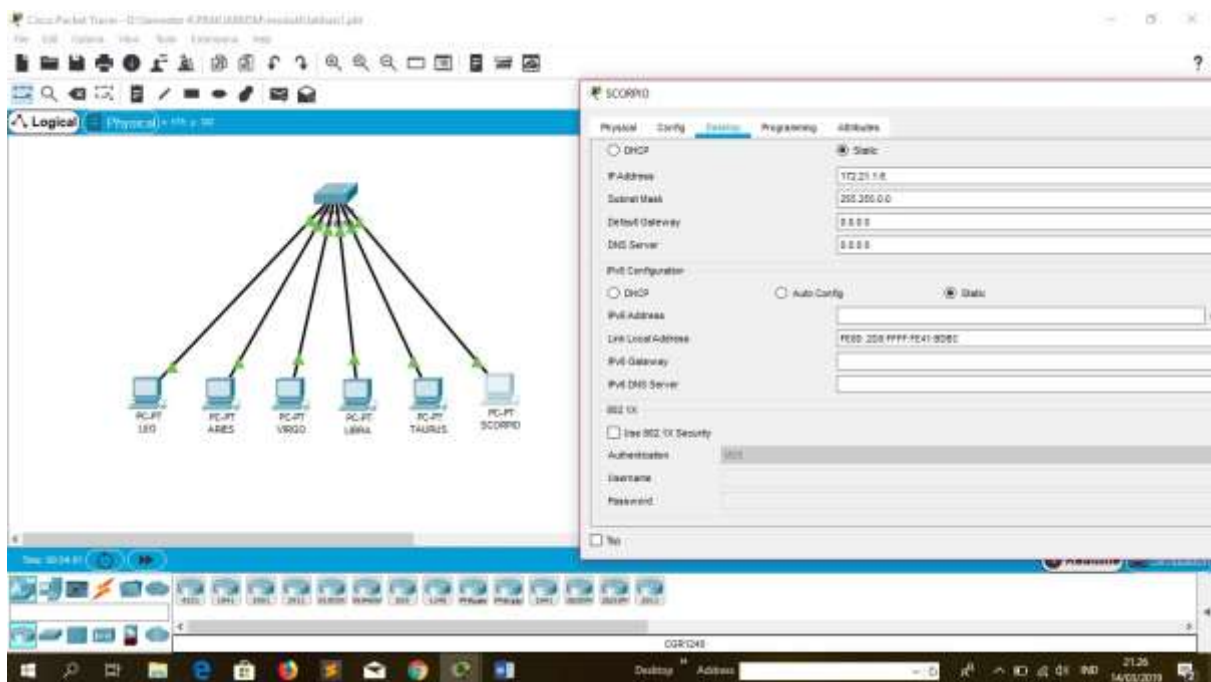
Memberikan IP Address pada PC2/VIRGO "172.21.1.3"



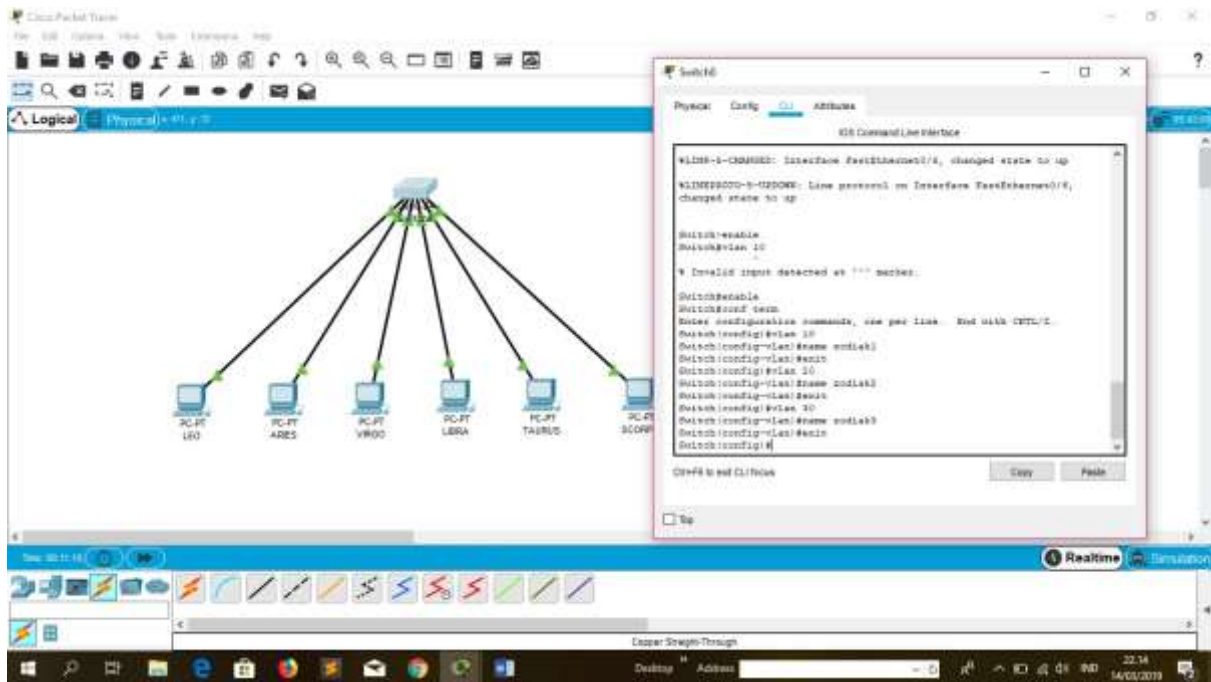
Memberikan IP Address pada PC3/LIBRA "172.21.1.4"



Memberikan IP Address pada PC5/TAURUS "172.21.1.5"



Memberikan IP Address pada PC6/SCORPIO "172.21.1.6"



Mengkonfigurasi switch dengan mode user atau mode privileged, dengan membuat 3 VLAN dengan nama Zodiak1, Zodiak2, Zodiak3. Dengan cara:

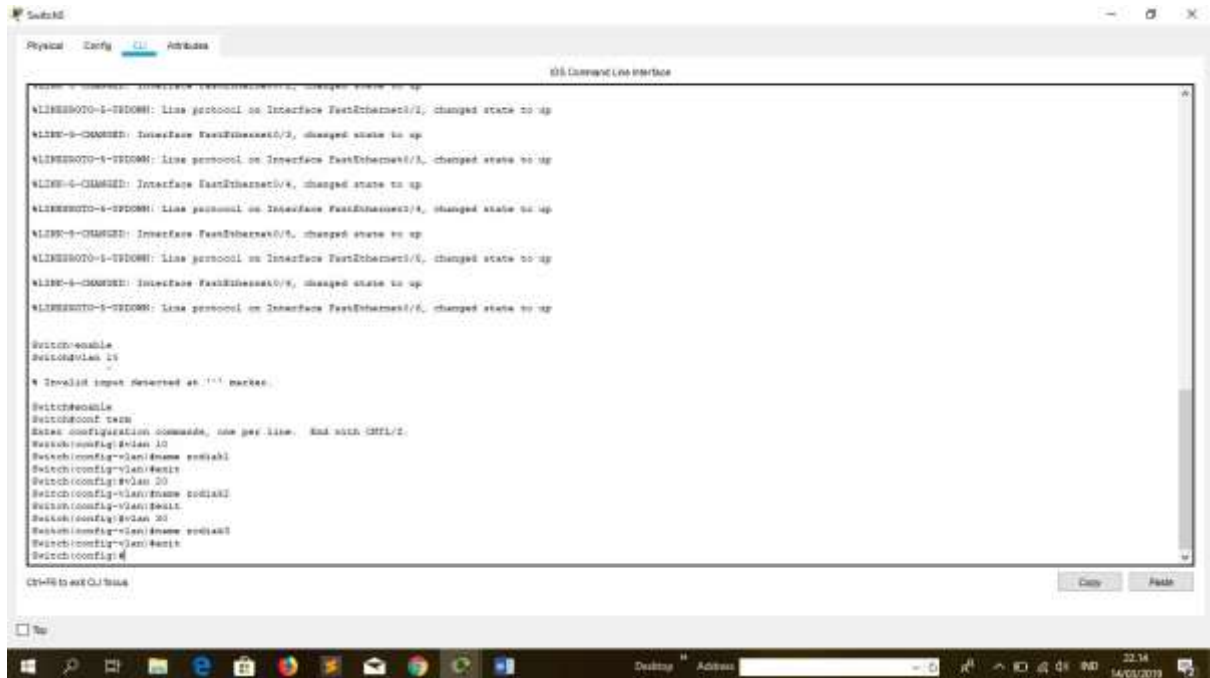
□ Klik pada SWITCH kemudian klik CLI, lalu tuliskan langkah pengoperasian seperti di bawah ini :

(Sebelum datulisan SWITCH# maka kita harus melakukan operasi (CTRL+Z=>ENTER) sampai datulisan SWITCH#), kemudian ketikkan

- a. Switch#enable
- b. Switch#conf term
- c. Switch(config)#vlan 10
- d. Switch(config-vlan)#name zodiak1
- e. Switch(config-vlan)#exit
- f. Switch(config)#vlan 20
- g. Switch(config-vlan)#name zodiak2
- h. Switch(config-vlan)#exit
- i. Switch(config)#vlan 30
- j. Switch(config-vlan)#name zodiak3
- k. Switch(config-vlan)#exit

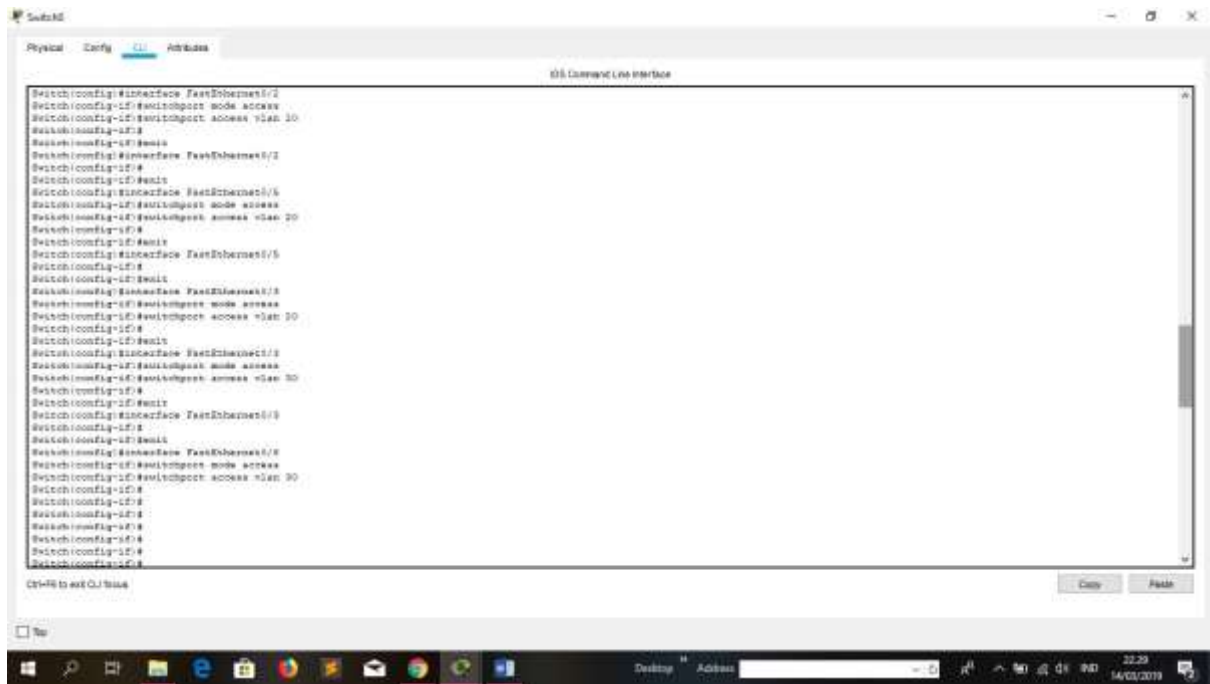
Padamode Configurasi, konfigurasi port-port switch ke dalam VLAN sebagai berikut:

-Zodiak3=virgo(3)danscorpio(6)



Masuk pada mode Configuration, kemudian:

- a. Klik FastEthernet0/1 (di Configuration)
- b. Kemudian kembali ke CLI, lalu ketikkan `switchport mode access`
- c. Ketikkan `switchport access vlan 10`
- d. Exit
- e. Klik FastEthernet0/4 (di Configuration)
- f. Kemudian kembali ke CLI, lalu ketikkan `switchport mode access`
- g. Ketikkan `switchport access vlan 10`
- h. Exit



Masuk pada mode Configuration, kemudian:

a.KlikFastethernet0/3(diConfiguration)

b. Kemudian kembalike CLI aluketikkan switchport mode access

c.Ketikswitchportaccessvlan30

d.Exit

e.KlikFastethernet0/6(diConfiguration)

f. Kemudian kembalike CLI, lalu ketikkan switchport mode access

g.Ketikkanswitchportaccessvlan30

h.Exit


```
Switch#show vlan id 20
VLAN Name                Status    Ports
-----
20  modiak2                active    Fa0/2, Fa0/8

VLAN Type  SAID      MTU   Parent RingNo BridgeNo Stp  BridgeMode Trans1 Trans2
-----
20  enet 100020  1500   -     -     -   -     -       0      0

Switch#show vlan id 30
VLAN Name                Status    Ports
-----
30  modiak3                active    Fa0/2, Fa0/6

VLAN Type  SAID      MTU   Parent RingNo BridgeNo Stp  BridgeMode Trans1 Trans2
-----
30  enet 100030  1500   -     -     -   -     -       0      0

Switch#
```

Ctrl+F8 to exit CLI focus

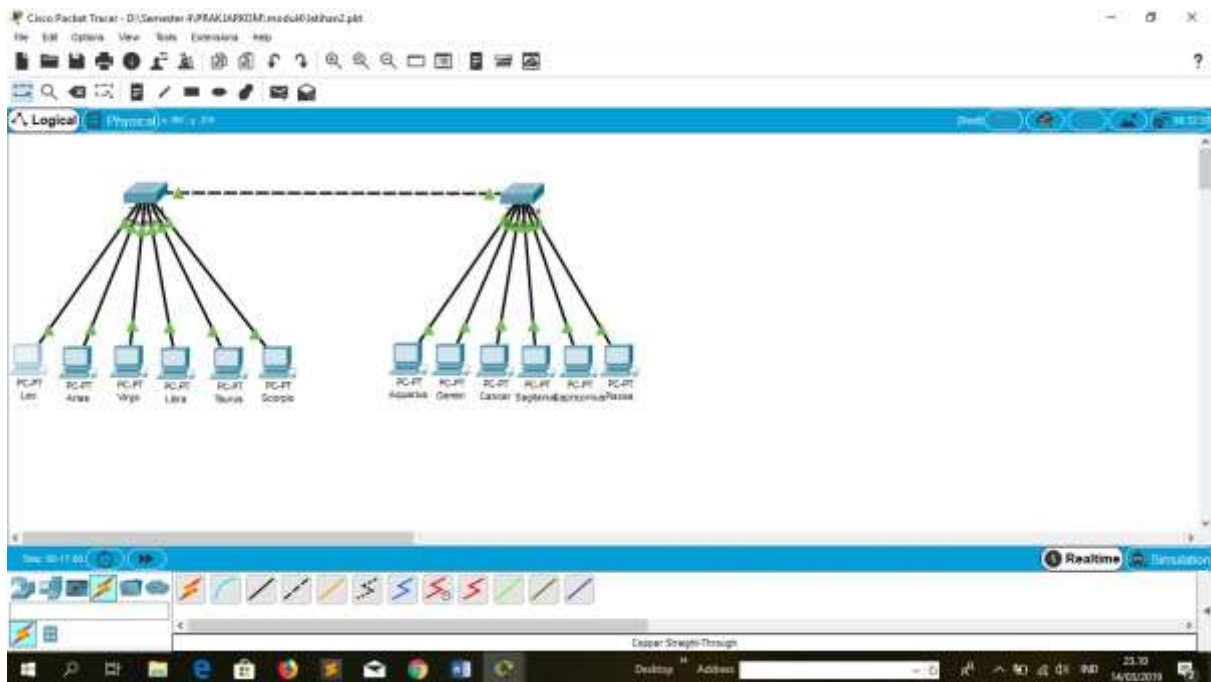
Copy Paste

Tip

Desktop Address 22:30 14/03/2019

Ketikkanshowvlanid30kemudianentermakatampilanakanmenjadisepertiitu.

Latihan2



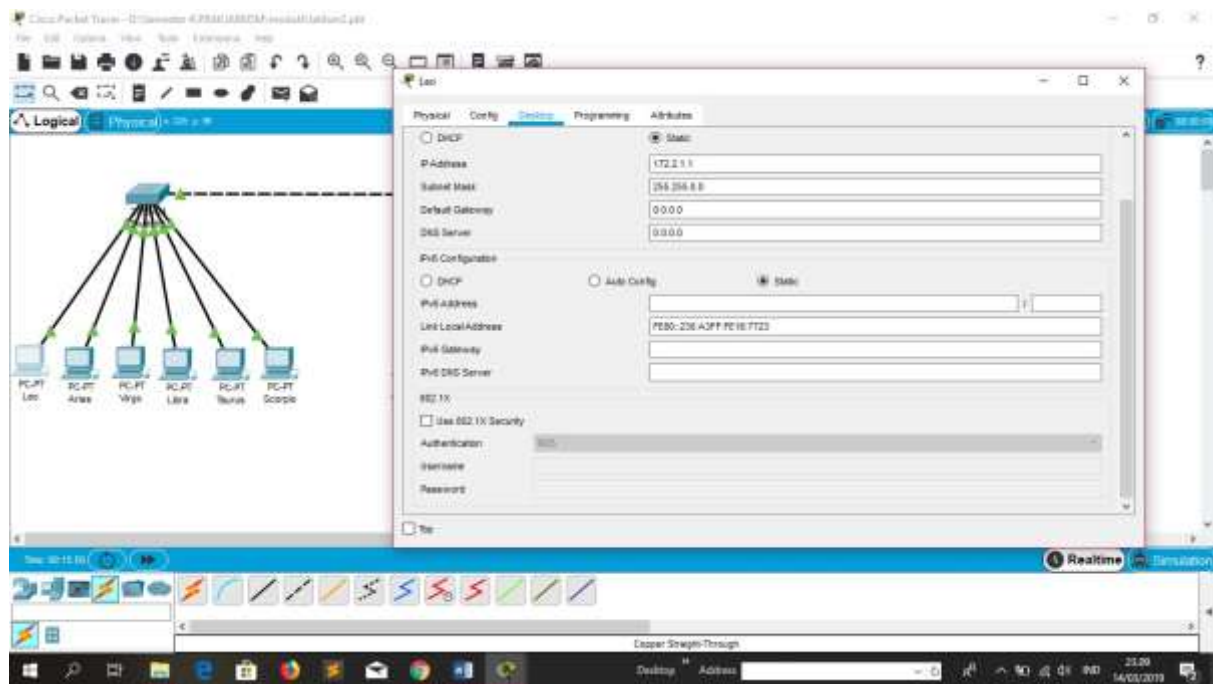
Menggunakan cisco packet tracer membuat topologi seperti gambar di atas dengan menggunakan switch Catalyst 2950. Kemudian, memberikan nama masing-masing perangkat sebagai berikut:

Pada SW1 (switch1)

- Leo (PC0)
- Aries (PC1)
- Virgo (PC2)
- Libra (PC3)
- Taurus (PC4)
- Scorpio (PC5)

Pada SW2 (switch2)

- Aquarius (PC6)
- Gemini (PC7)
- Cancer (PC8)
- Sagittarius (PC9)
- Capricornus (PC10)
- Pisces (PC11)



Memberikan IP Address pada masing-masing PC dengan nama dan alamat IP berikut ini:

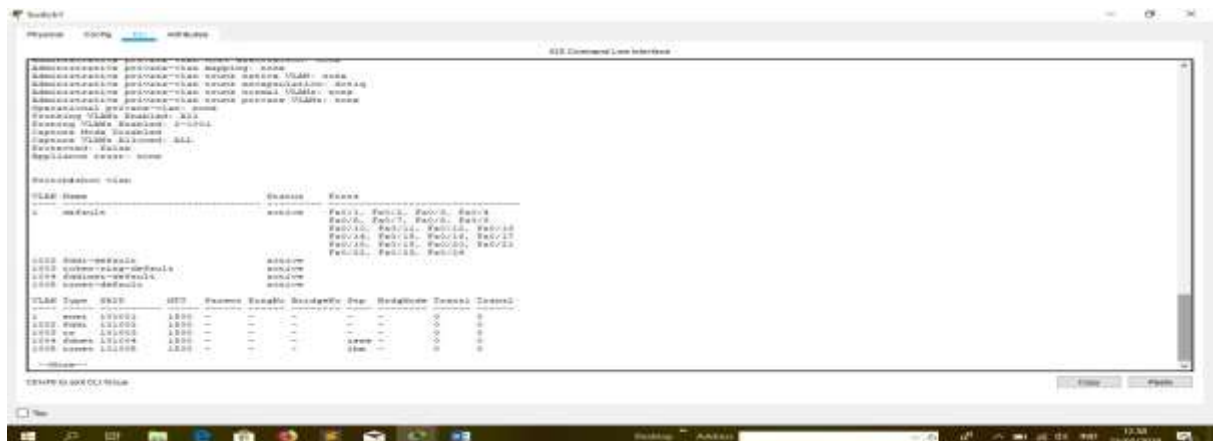
- a. Leo = 172.21.1.1
- b. Aries = 172.21.1.2
- c. Virgo = 172.21.2.1
- d. Libra = 172.21.2.2
- e. Taurus = 172.21.3.1
- f. Scorpio = 172.21.3.2
- g. Aquarius = 172.21.1.3
- h. Gemini = 172.21.1.4
- i. Cancer = 172.21.2.3
- j. Sagittarius = 172.21.2.4
- k. Capricorn = 172.21.3.3
- l. Pisces = 172.21.3.4

Langkahpenngoperasian:

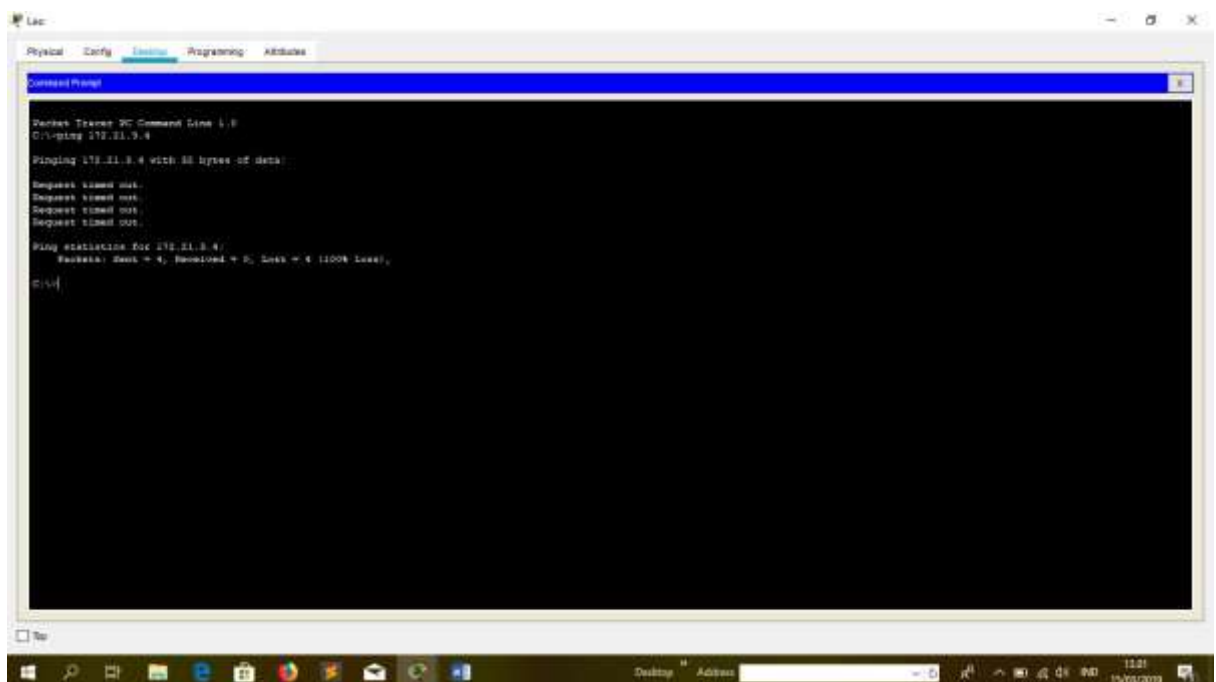
1.TekanEnter

2.Masukpadamodeprivileged

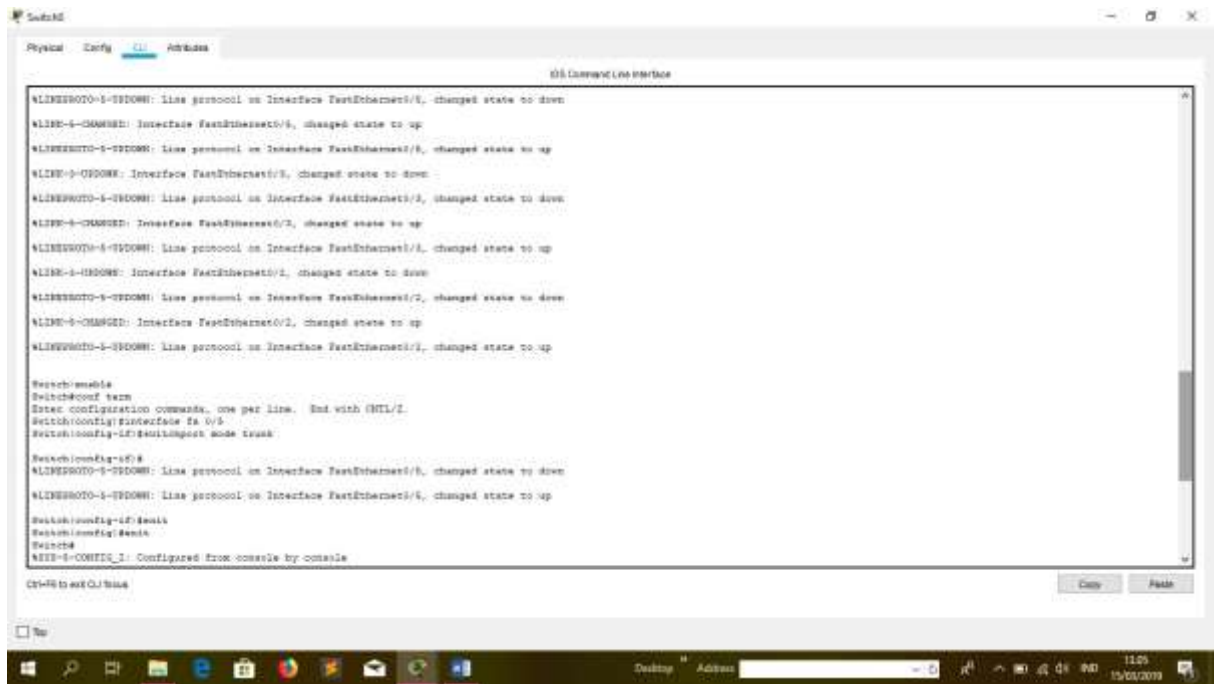
3.Ketikkanshowinterfacefastethernet0/7switchport



Ketikshowvlan



Lakukan Ping dari PC Leoke PC Pisces



Langkah konfigurasi VLAN pada Switch 1:

1. Switch#enable
2. Switch#conf term
3. Switch(config)#interface fa 0/6
4. Switch(config)#switchport mode trunk
5. Switch(config-if)#exit
6. Switch(config-if)#exit
7. Switch(config)# 8. Switch


```

Switch0
Physical Config CLI Attributes
IOS Command Line Interface

Switch#show int fa 0/5 switchport
Name: Fa0/5
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

```

Padamodeuserataumodeprivileged,lihatkonfigurasitrunkingyangtelahdibuat.

Langkahpengoperasian:

4.TekanEnter

5.Masukpadamodeprivileged

6.Ketikkanshowinterfacefastethernet0/7switchport

```

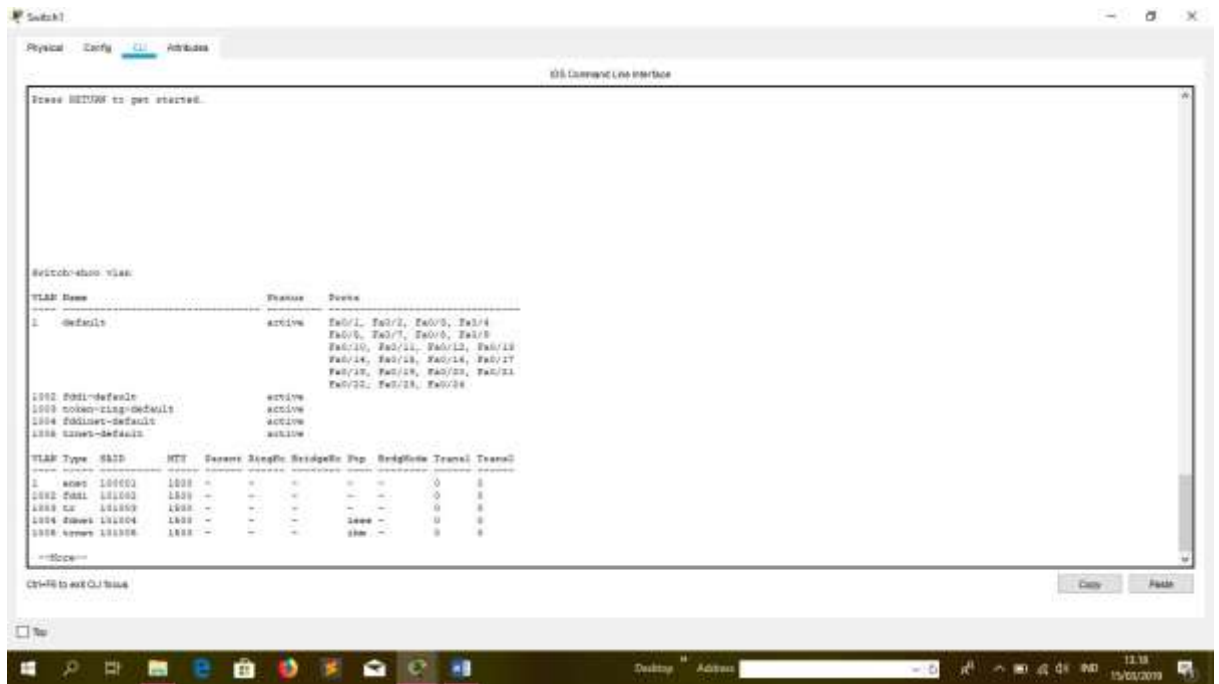
Switch#show vlan
VLAN Name                Status Ports
-----
1    default                active Fa0/1, Fa0/2, Fa0/3, Fa0/4,
                        Fa0/6, Fa0/7, Fa0/8, Fa0/9,
                        Fa0/10, Fa0/11, Fa0/12, Fa0/13,
                        Fa0/14, Fa0/15, Fa0/16, Fa0/17,
                        Fa0/18, Fa0/19, Fa0/20, Fa0/21,
                        Fa0/22, Fa0/23, Fa0/24
1002 fddi-default          active
1003 token-ring-default    active
1004 fddinet-default        active
1005 tennet-default         active

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BdgMode Transl Transl
-----
1    enet    100001     1500  -     -     -    -     0      0
1002 fddi    101002     1500  -     -     -    -     0      0
1003 tr     101003     1500  -     -     -    -     0      0
1004 fddnet 101004     1500  -     -     -    luma  0      0
1005 tennet 101005     1500  -     -     -    srm   0      0

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BdgMode Transl Transl
-----
Switch#
Ctrl-F6 to exit CLI focus

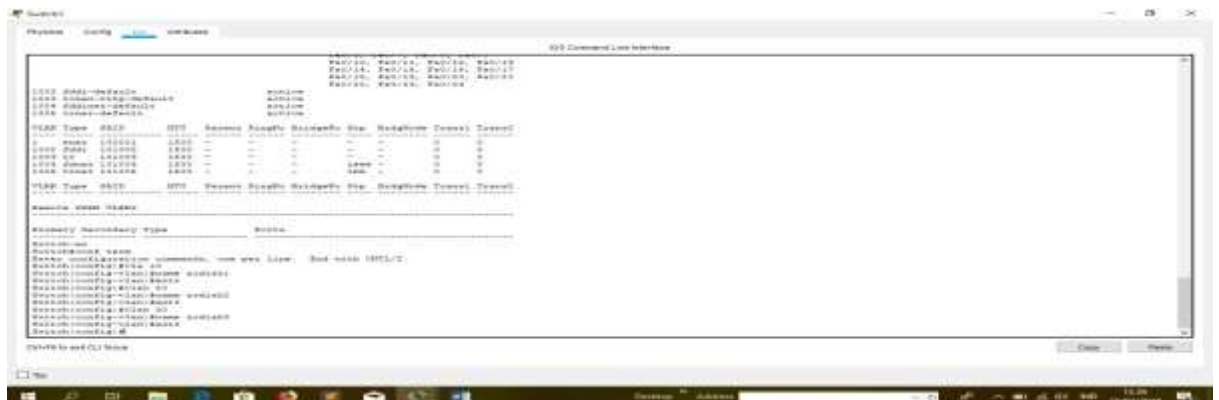
```

Tekanshowvlan



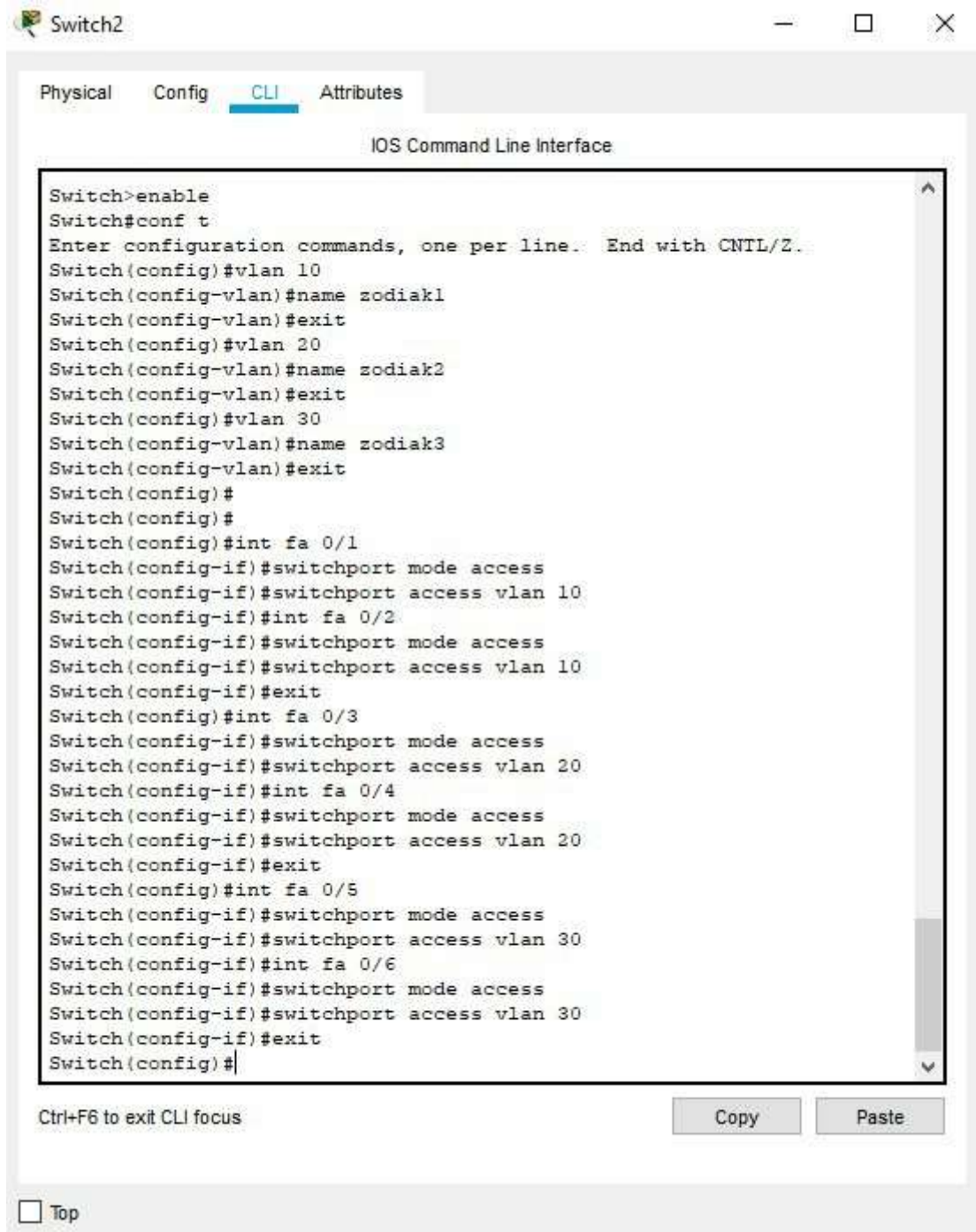
Langkah pengoperasian untuk melihat konfigurasi:

- Tekan enter
- Masuk pada CLI
- Ketik show vlan



- Switch#enable
- Switch#confterm
- Switch(config)#interface fa0/6
- Switch(config)#switchport mode trunk
- Switch(config-if)#exit
- Switch(config-if)#exit
- Switch(config)#

8.Switch

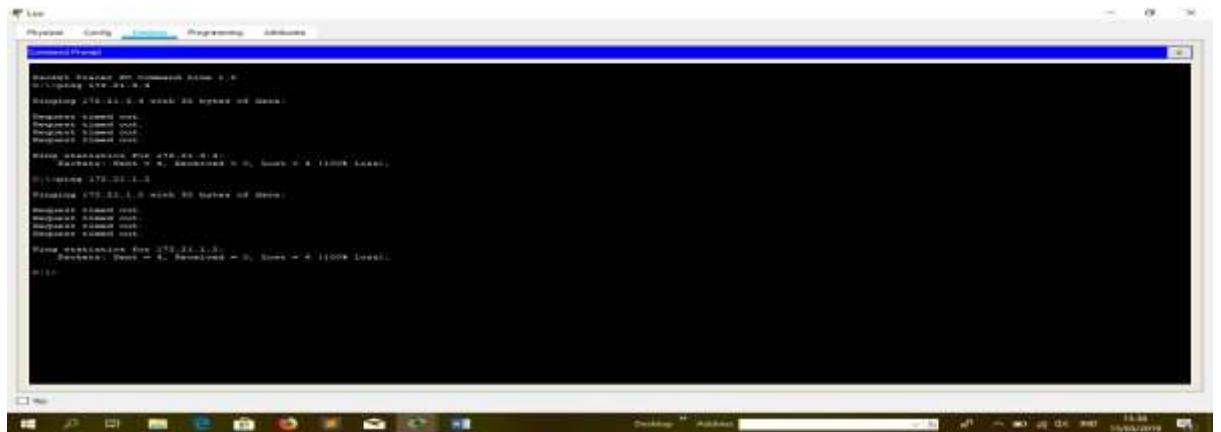


Padamodeconfiguration,kofigurasiport-
portswitchkedalamVLANzodiak1,zodiak2,dan zodiak3dengananggotasebagaiberikut:

□Zodiak1=aquariusdangemini

□Zodiak2=cancerdansagitarius

□Zodiak3=capricornusdanpisces



```

C:\>ping 172.21.1.3
Pinging 172.21.1.3 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

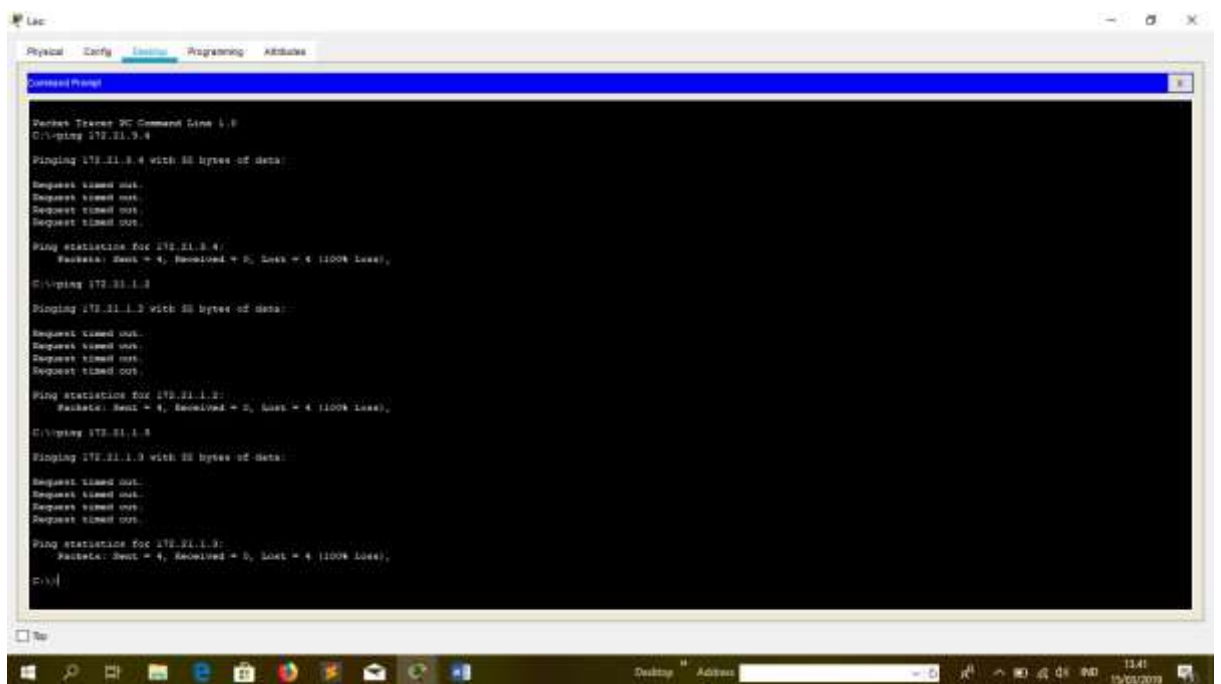
C:\>ping 172.21.1.2
Pinging 172.21.1.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>

```

PingPCLeokePCArries



```

C:\>ping 172.21.1.4
Pinging 172.21.1.4 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.1.2
Pinging 172.21.1.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

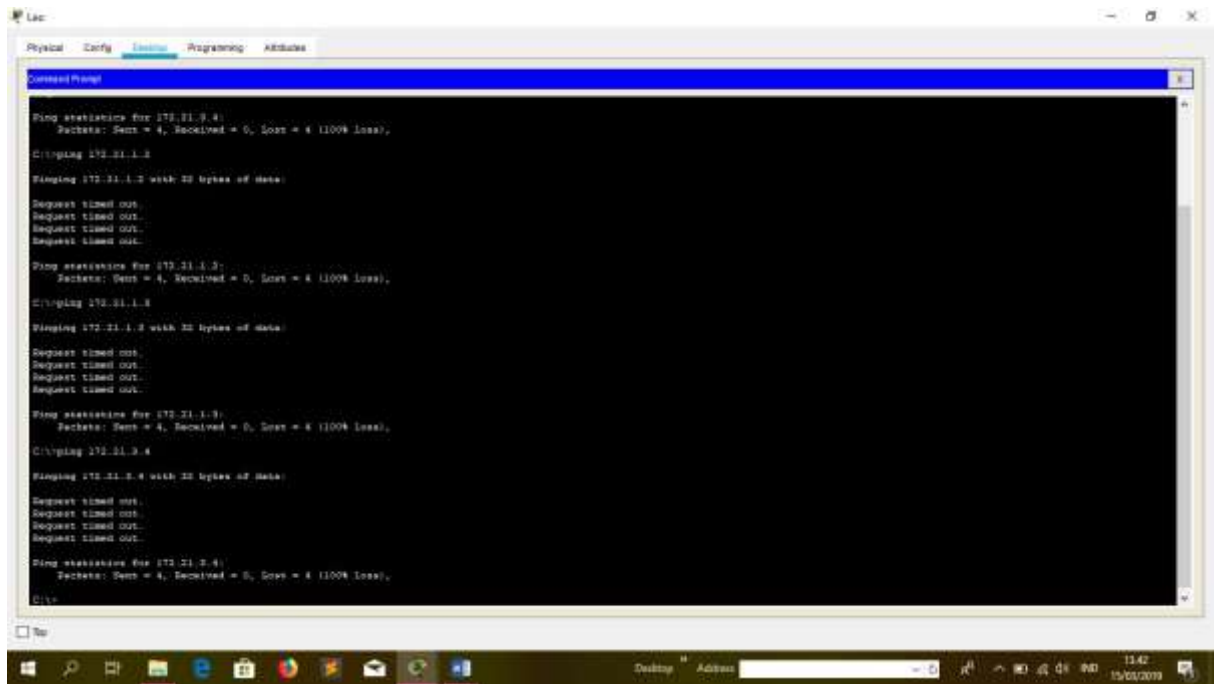
C:\>ping 172.21.1.3
Pinging 172.21.1.3 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

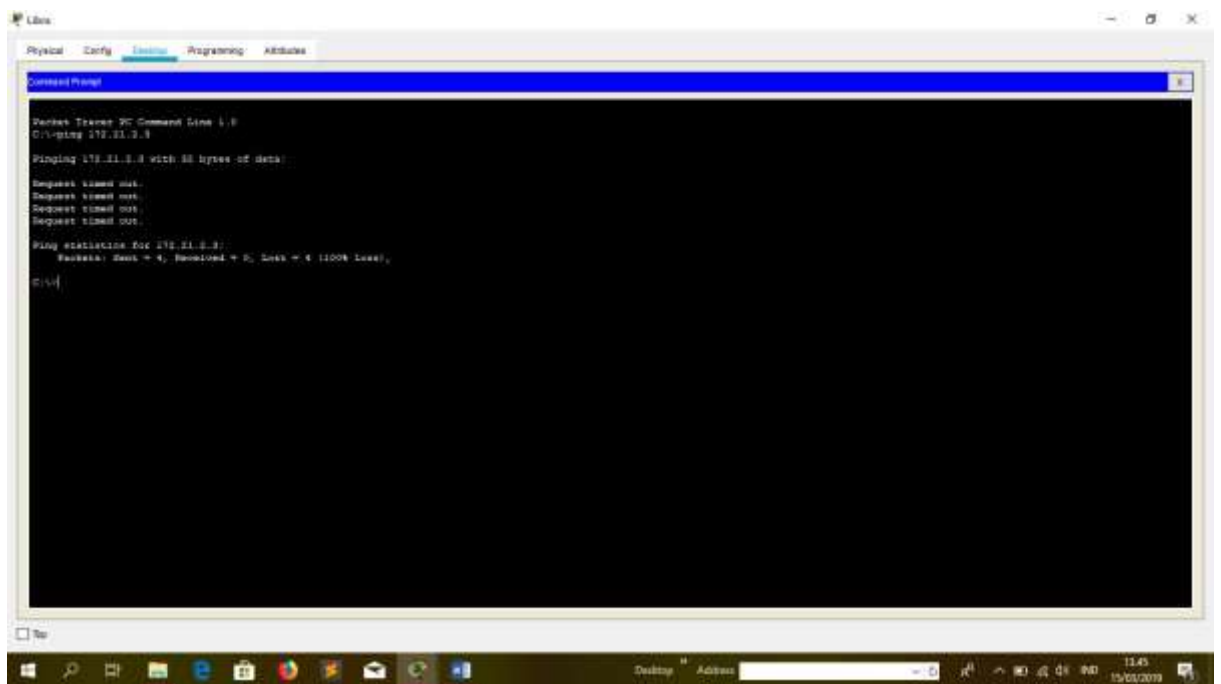
C:\>

```

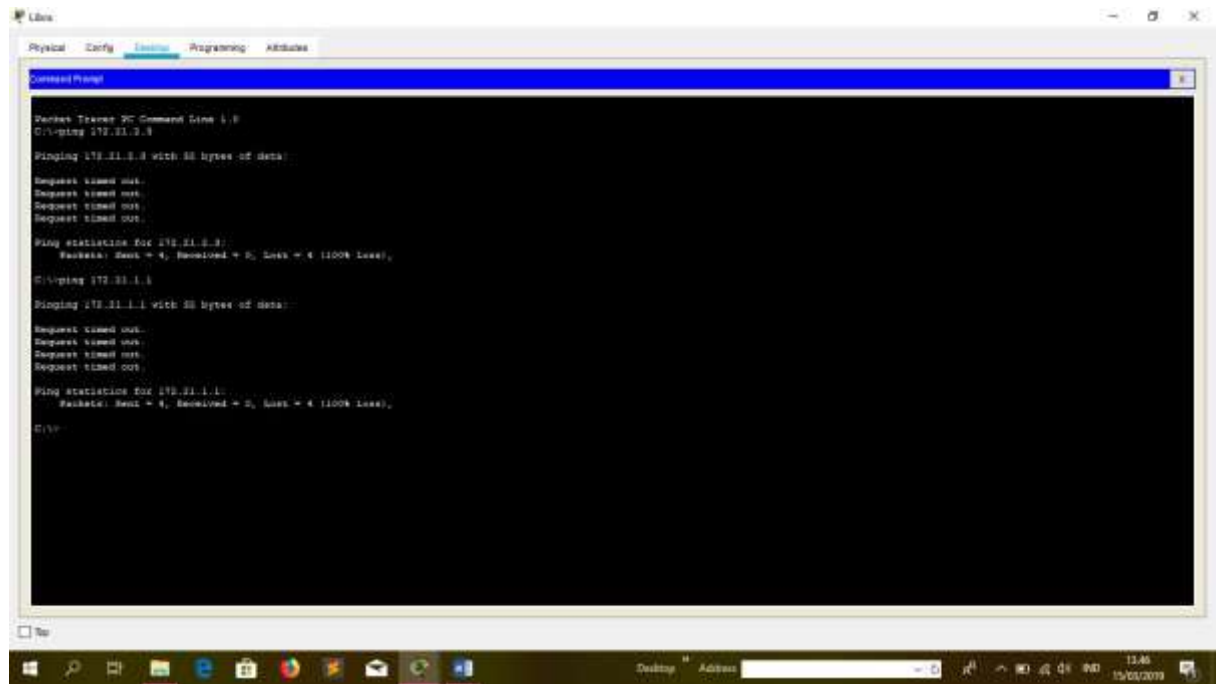
PingPCLeokePCAquarius



PingPCLeokePCPiscs



PingPCLibrakePCCancer



PingPCLibrokePCLeo