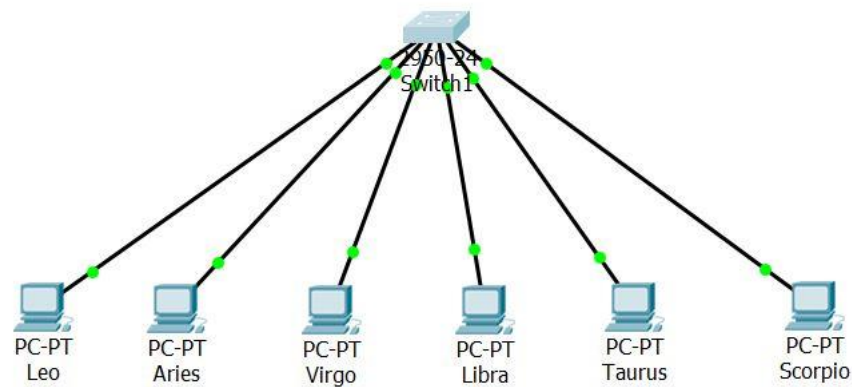COMPUTER NETWORKS

PRACTICUM 4

EVEN SEMESTER

Disusun oleh:

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INFORMATION STUDY PROGRAM

COMMUNICATION AND INFORMATION FACULTY

MUHAMMADIYAH UNIVERSITY OF SURAKARTA

2020

1. Activity 1. Topology 1


```
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
```

```
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
```

```
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
```

Briefly explain the results obtained!

a. In VLAN number 10 (zodiak1) there are 2 ports that have been configured, namely Fa0/1 and Fa0/4.

b. In VLAN number 20 (zodiak2) there are 2 ports that have been configured, namely Fa0/2 and Fa0/5.

c. In VLAN number 30 (zodiak3) there are 2 ports that have been configured, namely Fa0/3 and Fa0/6.

2. Acticity 2. Topology 2
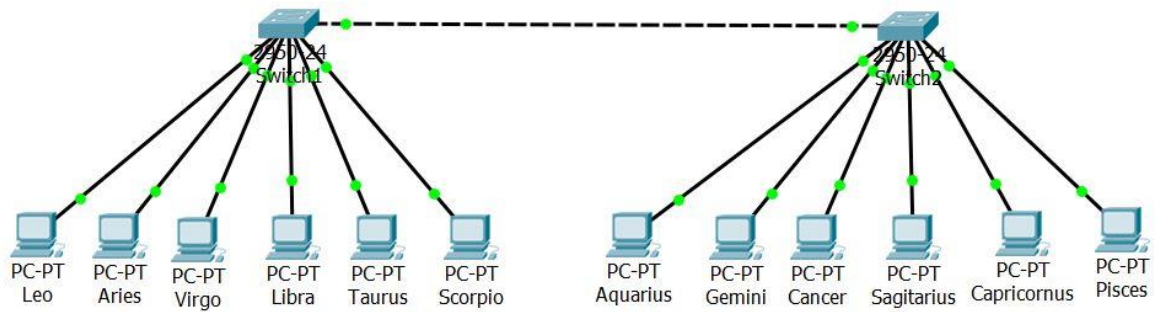

```
Switch#show vlan

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,
Fa0/24
10   zodiak1                          active    Fa0/1,
Fa0/4
20   zodiak2                          active    Fa0/2,
Fa0/5
30   zodiak3                          active    Fa0/3,
```

```
                                                                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

VLAN Type  SAID       MTU    Parent RingNo BridgeNo Stp
BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ----
-------- ------ ------
1     enet  100001     1500  -      -      -        -
-         0      0
10    enet  100010     1500  -      -      -        -
```

Ctrl+F6 to exit CLI focus   Copy   Paste

| Physical | Config | CLI | Attributes |

IOS Command Line Interface

```
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  100001     1500  -      -      -        -
-         0      0
10    enet  100010     1500  -      -      -        -
-         0      0
20    enet  100020     1500  -      -      -        -
-         0      0
30    enet  100030     1500  -      -      -        -
-         0      0
--More--
```
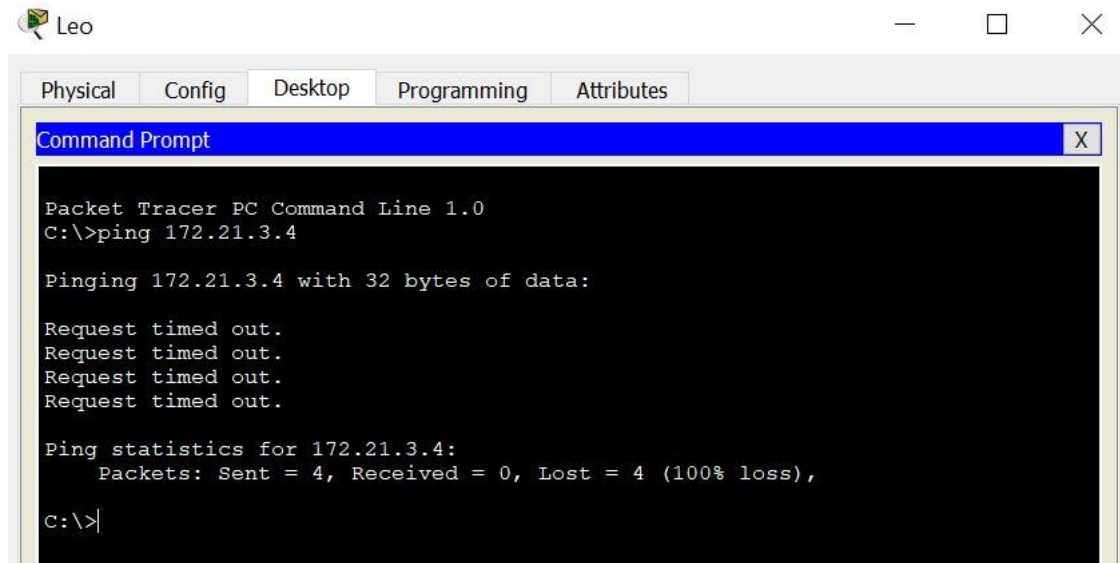
Ctrl+F6 to exit CLI focus   Copy   Paste

Exercise 7A :

1) In VLAN number 10 (zodiak1) there are 2 ports that have been configured, namely Fa0/1 and Fa0/4

2) In VLAN number 20 (zodiak2) there are 2 ports that have been configured, namely Fa0/2 and Fa0/5

3) In VLAN number 30 (zodiak3) there are 2 ports that have been configured, namely Fa0/3 and Fa0/6

4) Fa0/24 is configured in VLAN Trunking

The configuration of the IP address on PC Leo and PC Pisces is different
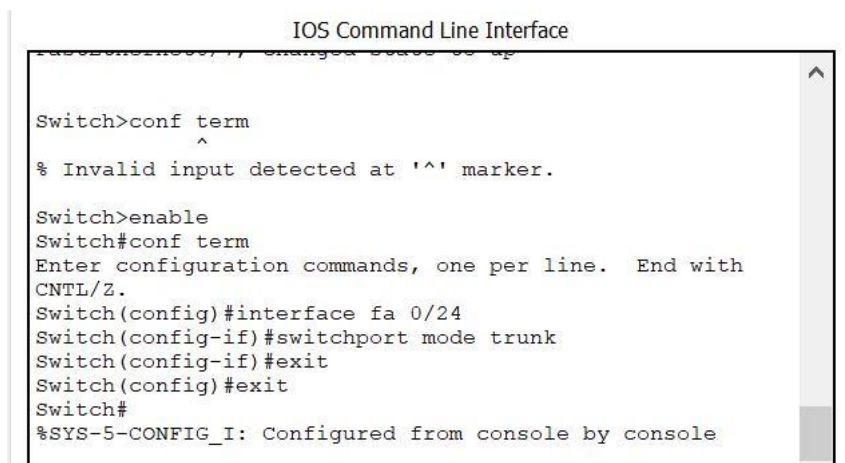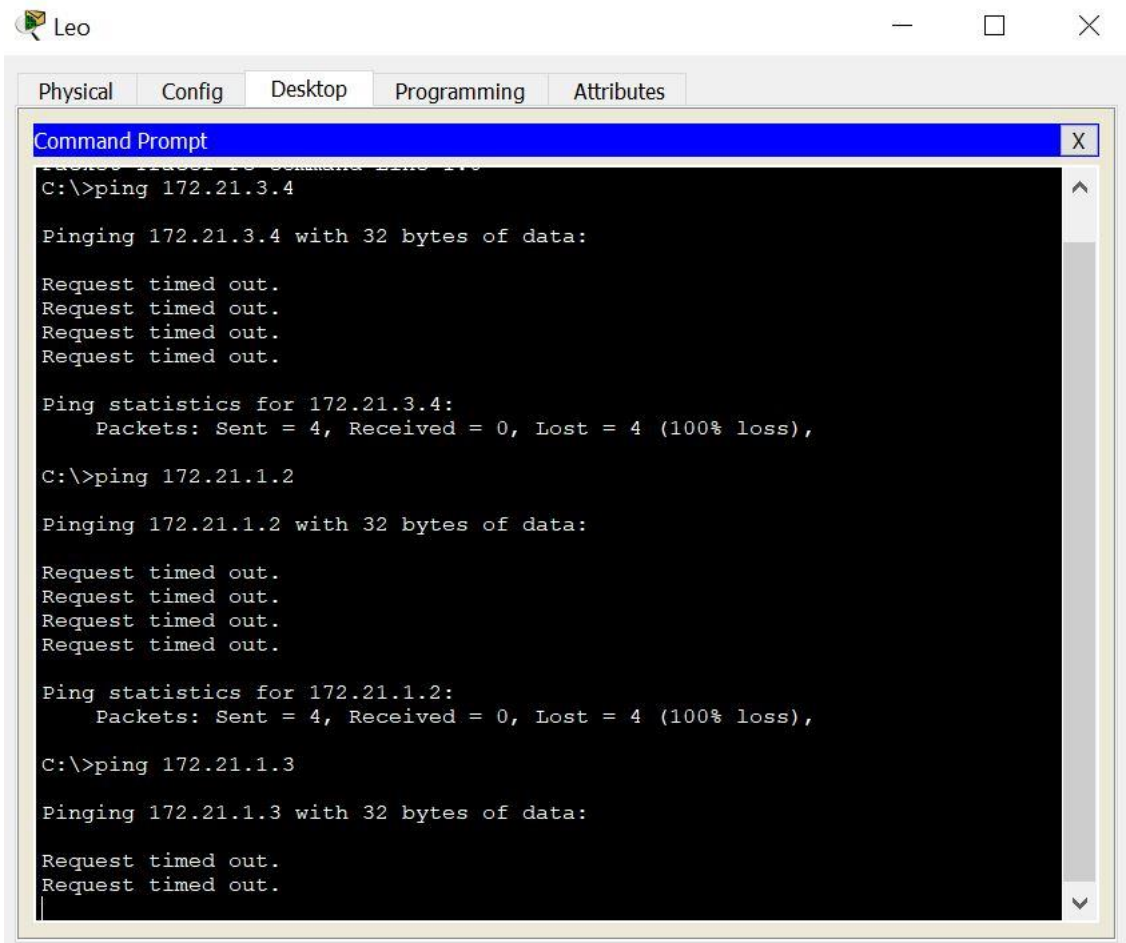
```
Switch#show vlan

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa0/2, Fa0/3, Fa0/4
                                                Fa0/5, 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 trnet-default                    active

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------
1    enet  100001     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--
```

Fa0/24 is configured in VLAN Trunking

```
Switch(config-if)#interface fastethernet 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#interface fastethernet 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#interface fastethernet 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#interface fastethernet 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#interface fastethernet 0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#interface fastethernet 0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
Switch(config)#
```

PC Leo ke PC Aries, PC Leo ke PC Leo ke Aquarius

PC Leo ke Pisces

PC Libra ke Cancer dan PC Libra ke Leo

All results pinged to several PCs generate status request time out due to differences in IP address and switch differences