Nama : Kori Indah Prastika Wati

NIM : L200170053
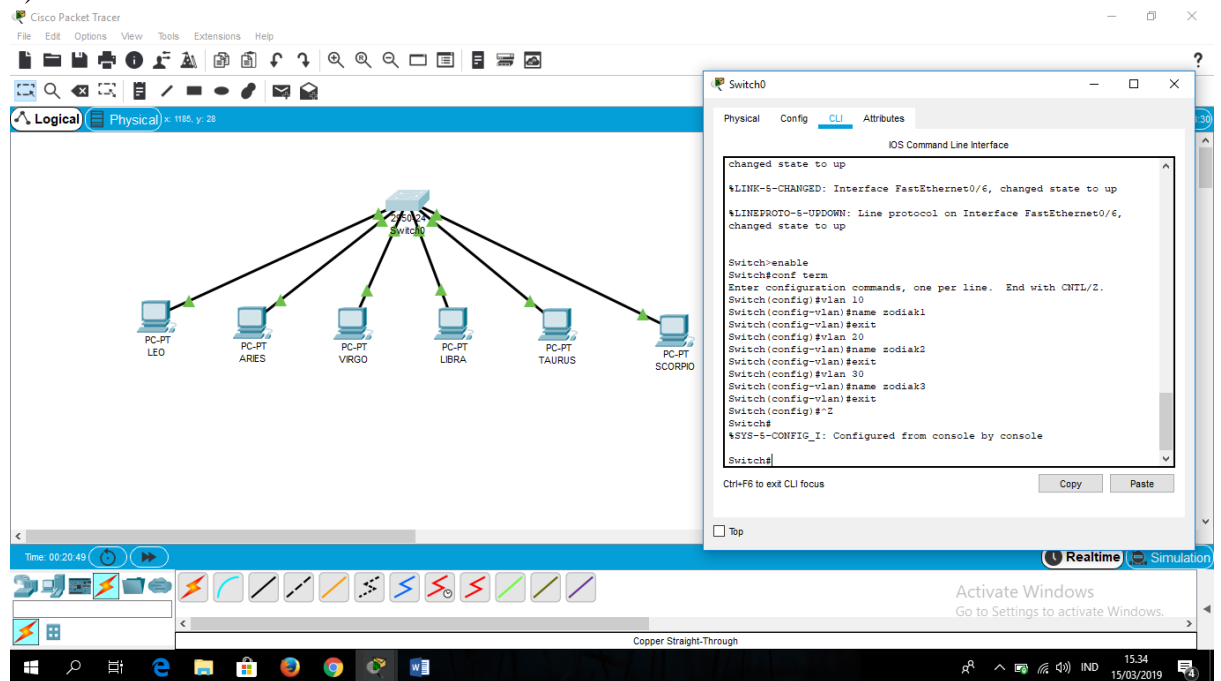
Kelas : B

MODUL 4
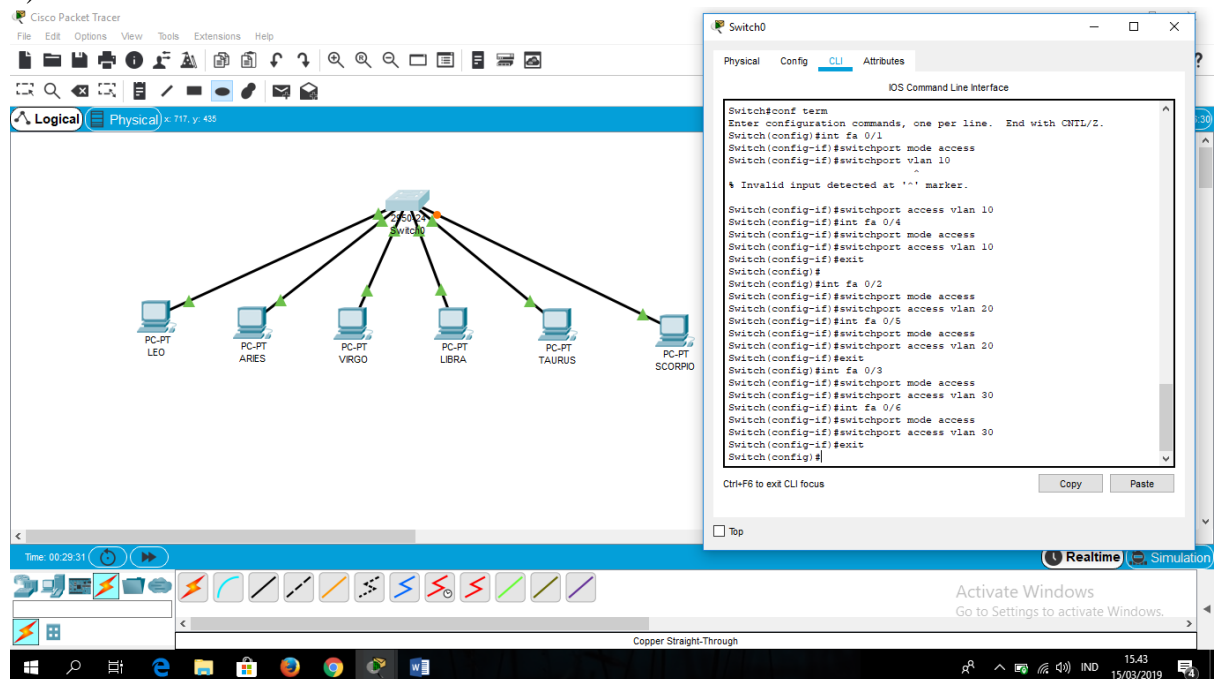# VIRTUAL LAN DAN TRUNKING

1. Topologi 1

    a)

    b)

c)

First screenshot - Switch0 CLI:

```
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#int fa 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#int fa 0/6
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
Switch(config-if)#exit
Switch(config)#^Z
Switch#
%SYS-5-CONFIG_I: Configured from console by console

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, Fa0/6
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--
```

Second screenshot - Switch0 CLI:

```
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, Fa0/6
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

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------

Remote SPAN VLANs
------------------------------------------------------------------------------

Primary Secondary Type              Ports
------- --------- ----------------- ------------------------------------------
Switch#
```

Cisco Packet Tracer

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Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```
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

VLAN Type  SAID     MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- -------- ----- ------ ------ -------- ---- -------- ------ ------

Remote SPAN VLANs
------------------------------------------------------------------------------

Primary Secondary Type           Ports
------- --------- -------------- ------------------------------------------
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#
```
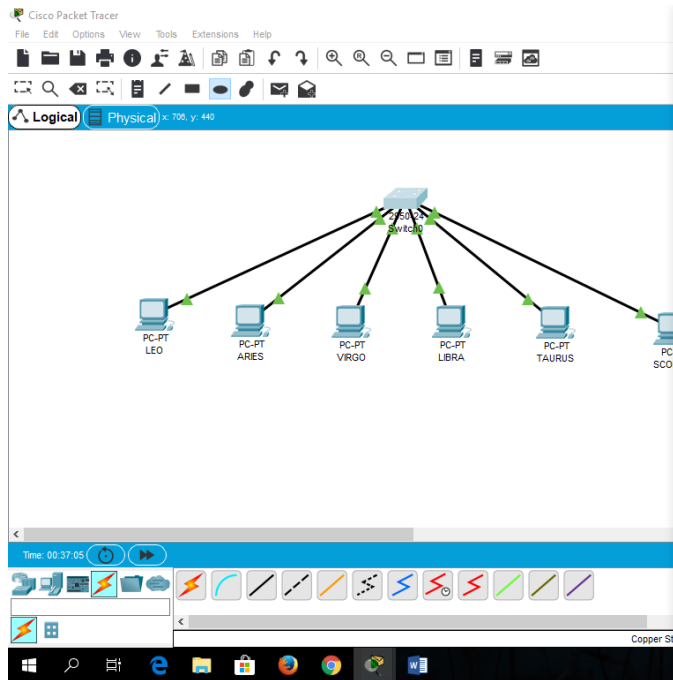
Ctrl+F6 to exit CLI focus

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Vlan id 10

Cisco Packet Tracer

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Switch0

Physical Config CLI Attributes

IOS Command Line Interface

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

Remote SPAN VLANs
------------------------------------------------------------------------------

Primary Secondary Type           Ports
------- --------- -------------- ------------------------------------------
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#show vlan id 2
VLAN id 2 not found in current VLAN database
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#
```

Ctrl+F6 to exit CLI focus

☐ Top

Vlan id 20

Vlan id 30

No	Variabel	Nilai		
1	Nomor VLAN	10	20	30
2	Nomor VLAN	Zodiak 1	Zodiak 2	Zodiak 3
3	Nomor VLAN	Fa 0/1, Fa0/4	Fa 0/2, Fa0/5	Fa 0/3, Fa0/6
4	Nomor VLAN	active	active	active

2. Topologi 2
a)
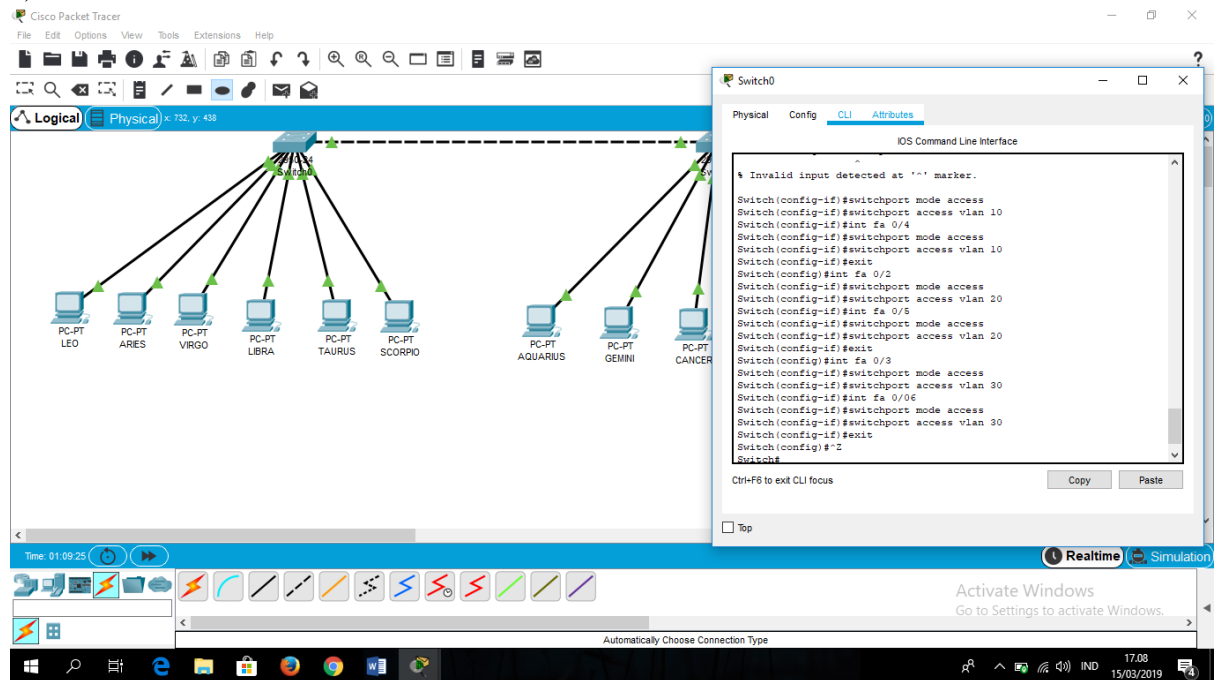
b)
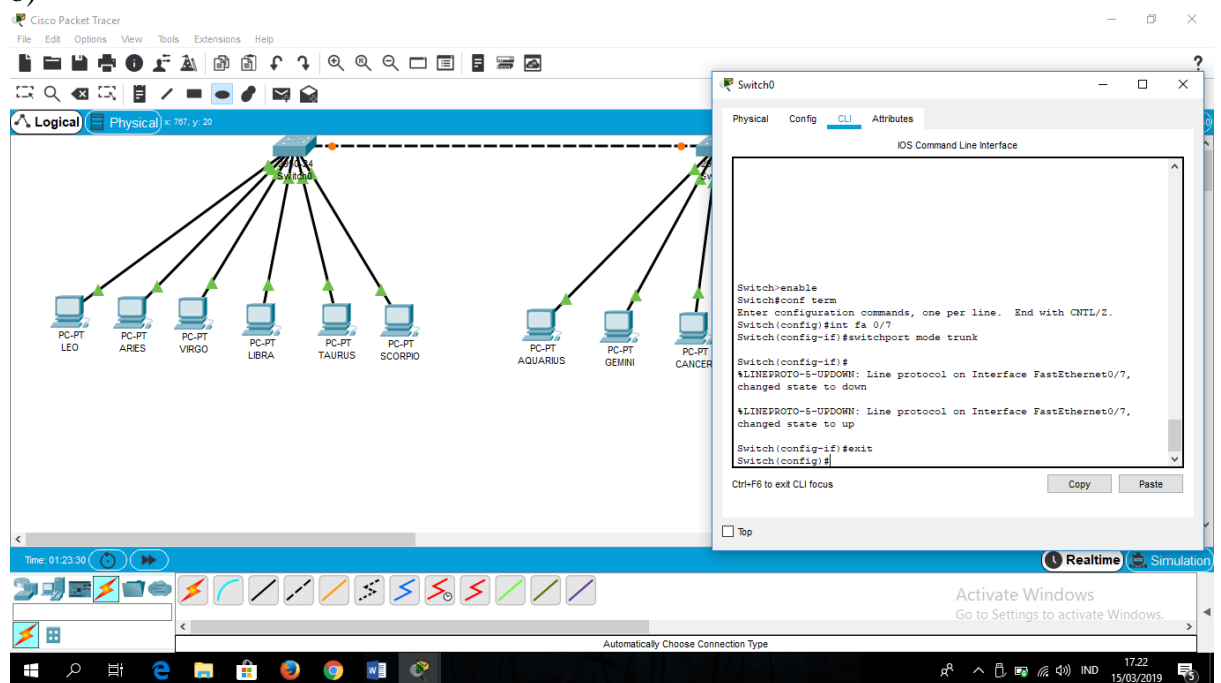
c)

Cisco Packet Tracer — Switch0

Top window (CLI):

```
Switch#show int fa 0/7 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
```

Bottom window (CLI):

```
% Invalid input detected at '^' marker.

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   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  -      -      -        -    -          0
0
20     enet  100020     1500  -      -      -        -    -          0
0
30     enet  100030     1500  -      -      -        -    -          0
0
--More--
```
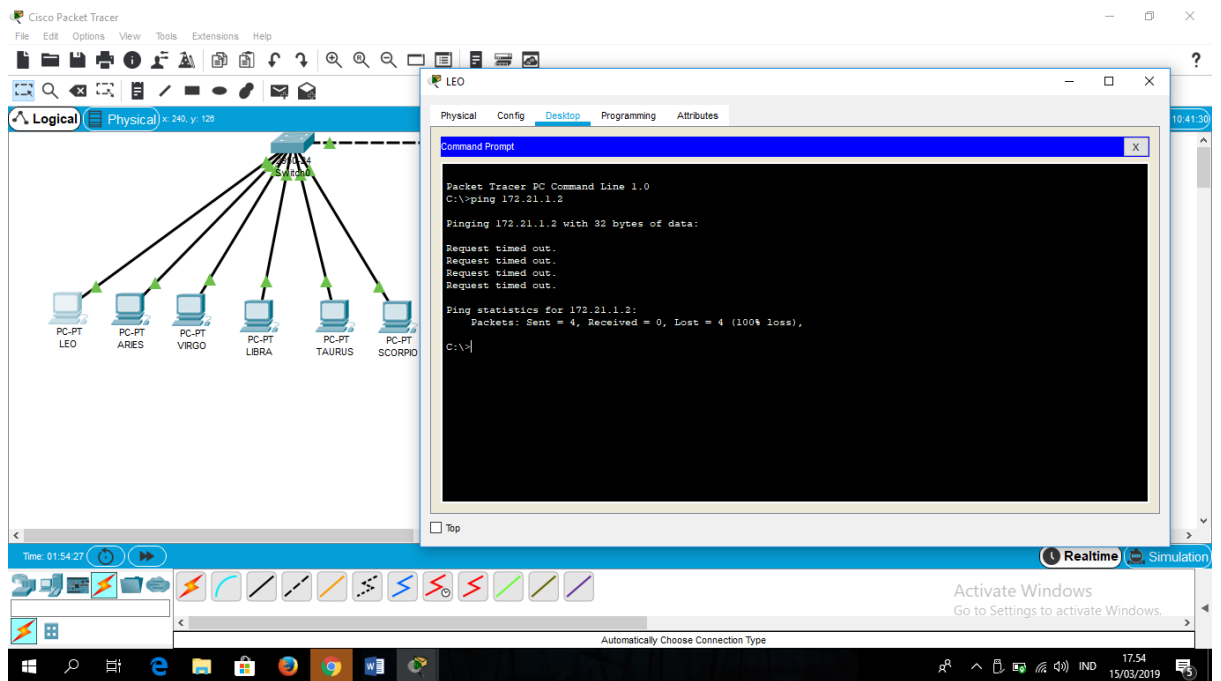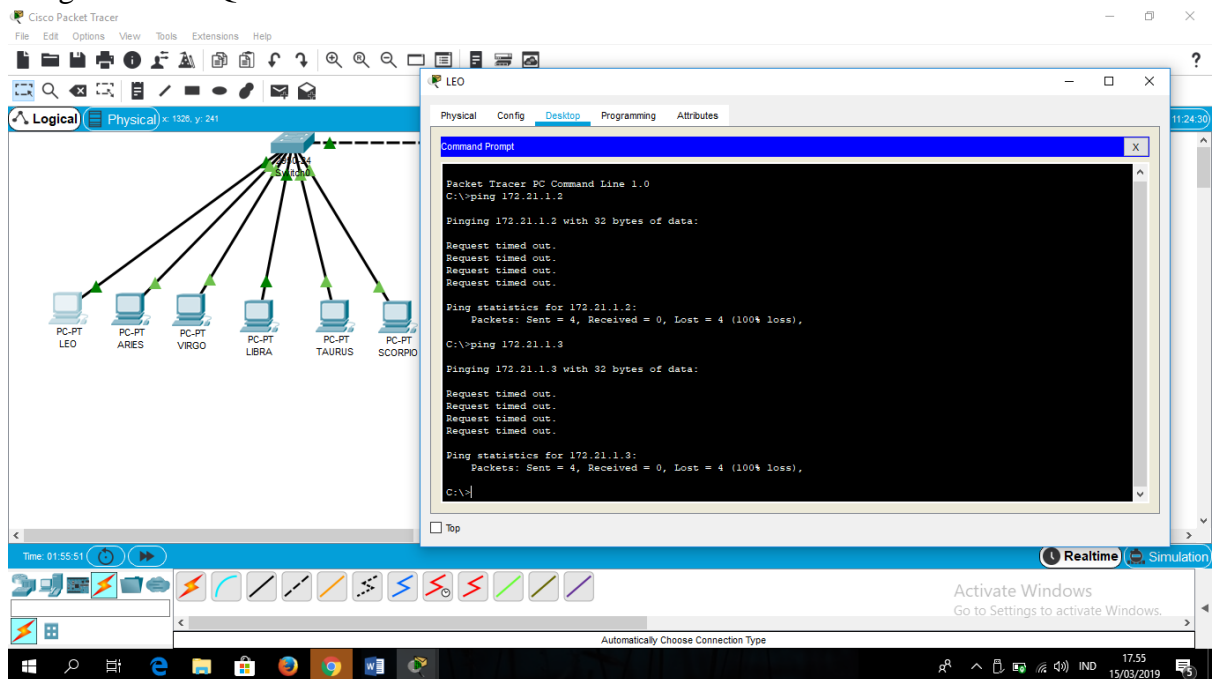
d)

e) konfigurasi vlan switch 1
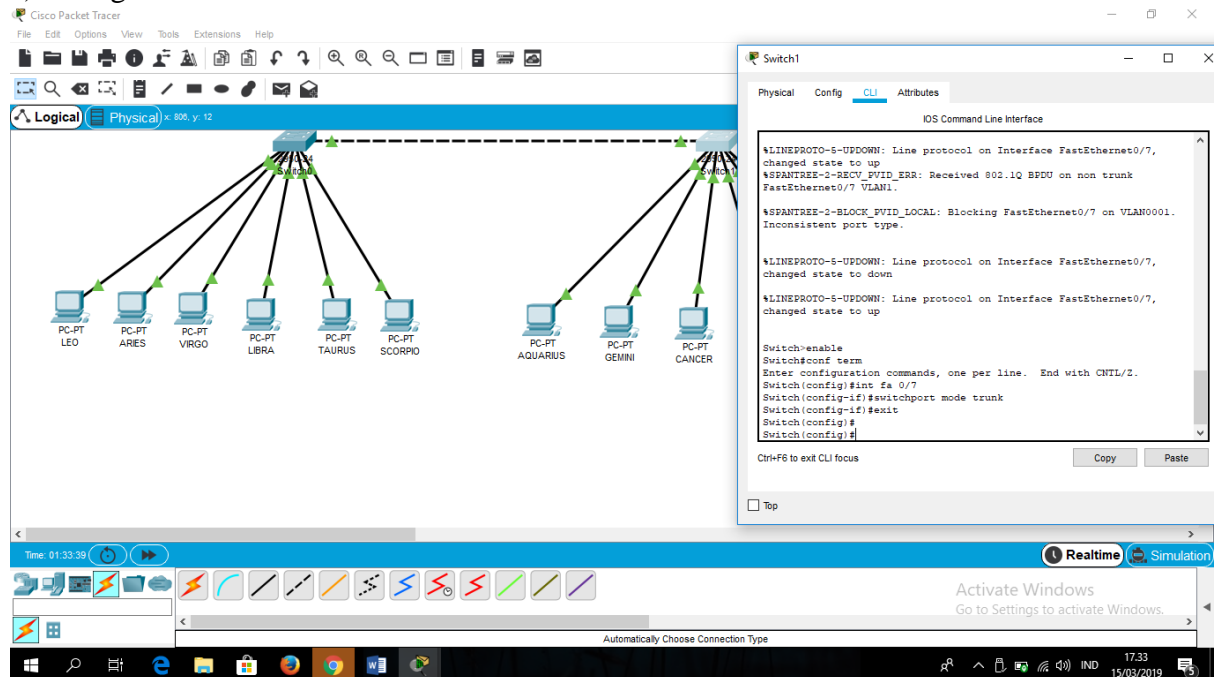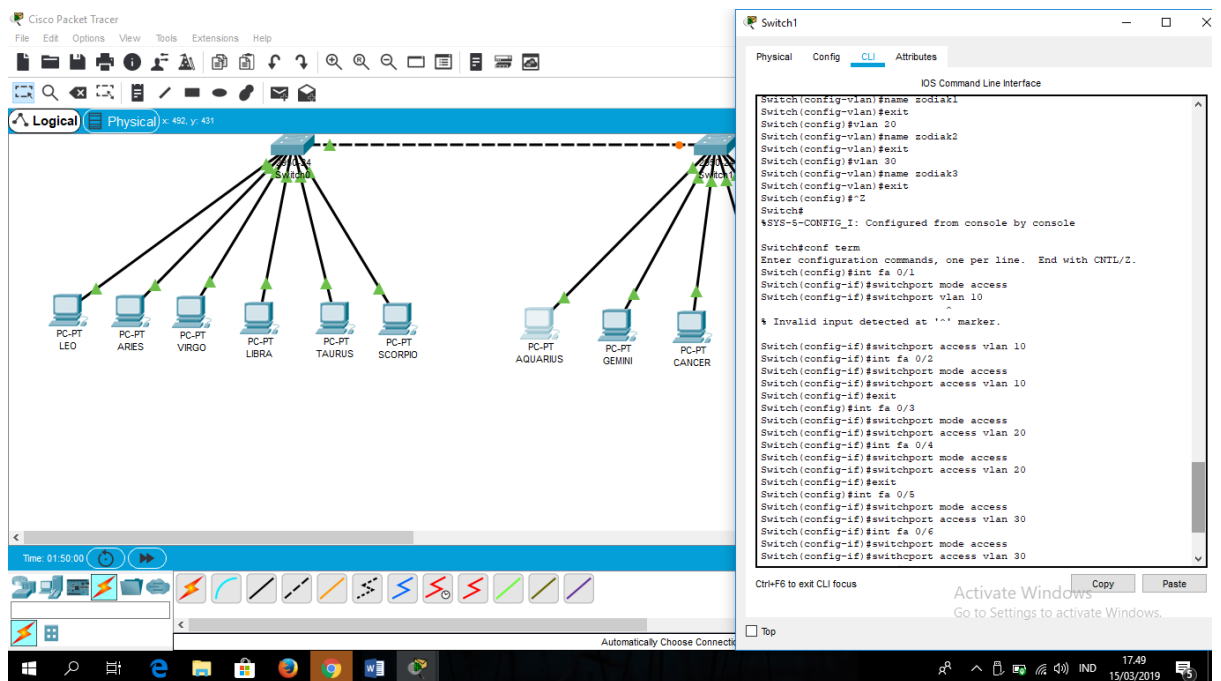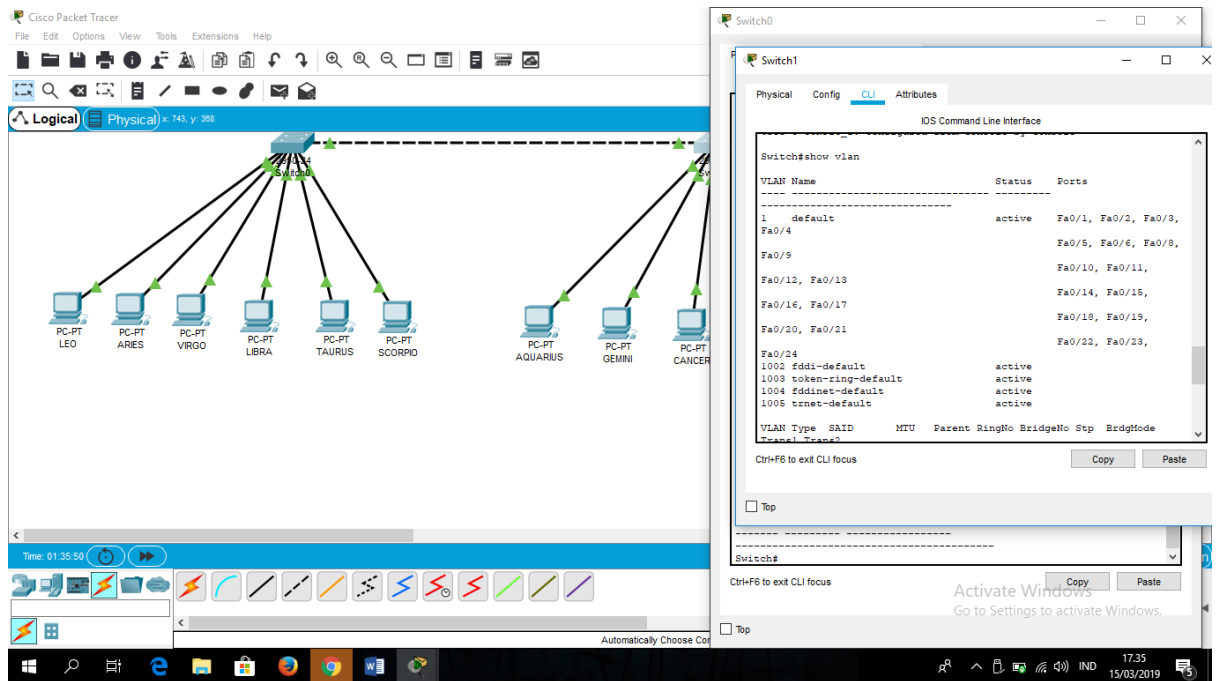
Ping LEO ke ARIES

Ping LEO ke AQUARIUS

Ping LEO ke PISCES

Ping LIBRA ke CANCER

Ping LIBRA ke LEO

Ping LIBRA ke LEO