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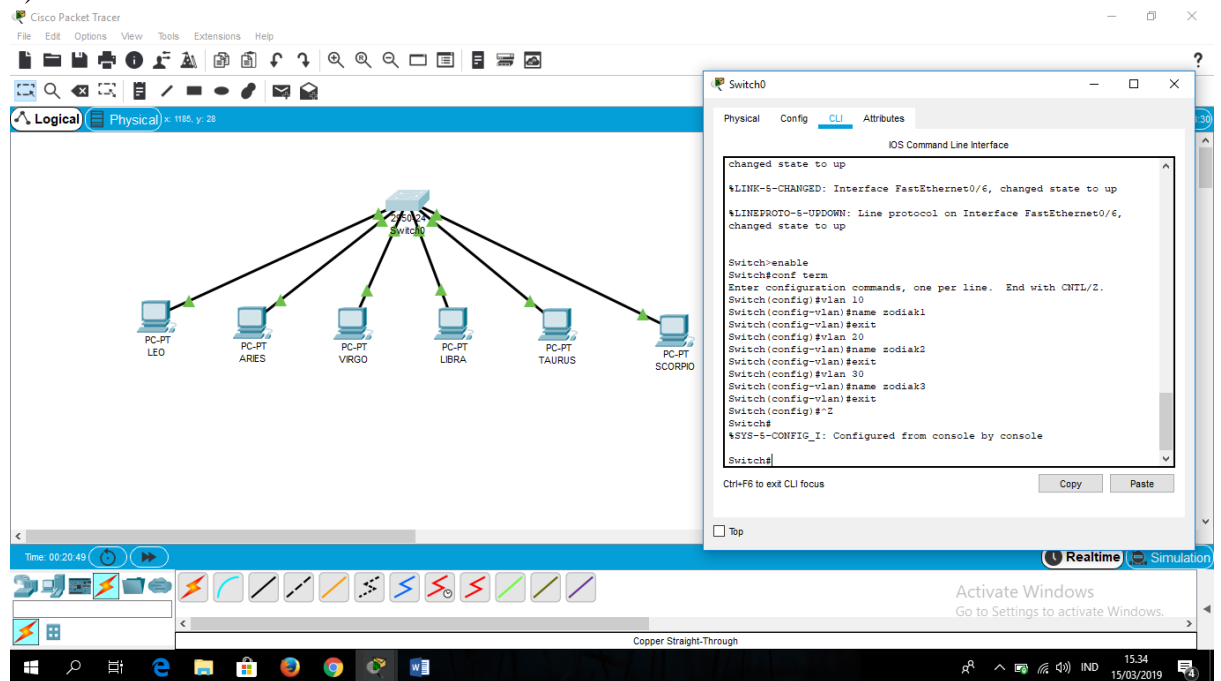
Kelas : B

## MODUL 4

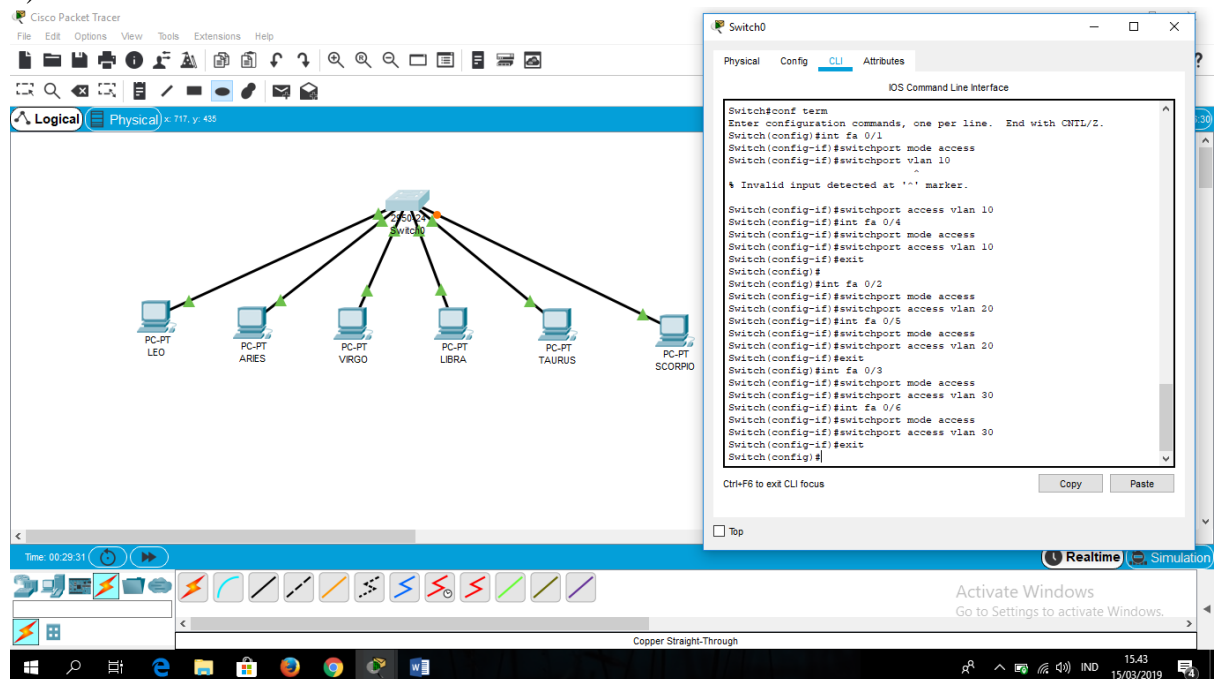
### VIRTUAL LAN DAN TRUNKING

#### 1. Topologi 1

a)



b)



c)

Time: 00:33:14

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```

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)#1
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 sodiak1	active	Fa0/1, Fa0/4
20 sodiak2	active	Fa0/2, Fa0/5
30 sodiak3	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	Bridgello	Stp	BrdgMode	Transl	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

Ctrl+F6 to exit CLI focus

Activate Windows  
Go to Settings to activate Windows.

Top

Time: 00:34:11

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```

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 sodiak1	active	Fa0/1, Fa0/4
20 sodiak2	active	Fa0/2, Fa0/5
30 sodiak3	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	Bridgello	Stp	BrdgMode	Transl	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

Remote SPAN VLANs

Primary	Secondary	Type	Ports
Switch#			

Ctrl+F6 to exit CLI focus

Activate Windows  
Go to Settings to activate Windows.

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Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 734, y: 438

Time: 00:35:10

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	fdci	101002	1500	-	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	-	0	0
1004	fdnet	101004	1500	-	-	-	ieee	-	0	0
1005	trnet	101005	1500	-	-	-	ibm	-	0	0

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 fdci-default	active	
1003 token-ring-default	active	
1004 fdnet-default	active	
1005 trnet-default	active	

Switch#

Ctrl+F6 to exit CLI focus

Activate Windows  
Go to Settings to activate Windows.

Top

## Vlan id 10

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 706, y: 449

Time: 00:36:18

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

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 fdci-default	active	
1003 token-ring-default	active	
1004 fdnet-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
----	------	--------	------	---	---	---	---	---	---	---

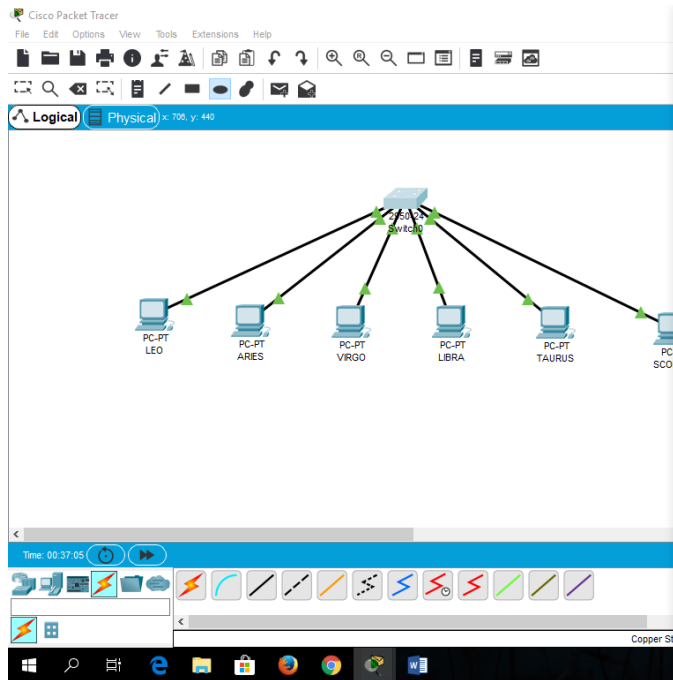
Switch#

Ctrl+F6 to exit CLI focus

Activate Windows  
Go to Settings to activate Windows.

Top

## Vlan id 20



Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```

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  BrgdMode Transl 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  BrgdMode Transl Trans2
-----
20   enet  100020  1500  -     -     -     -     -       0       0

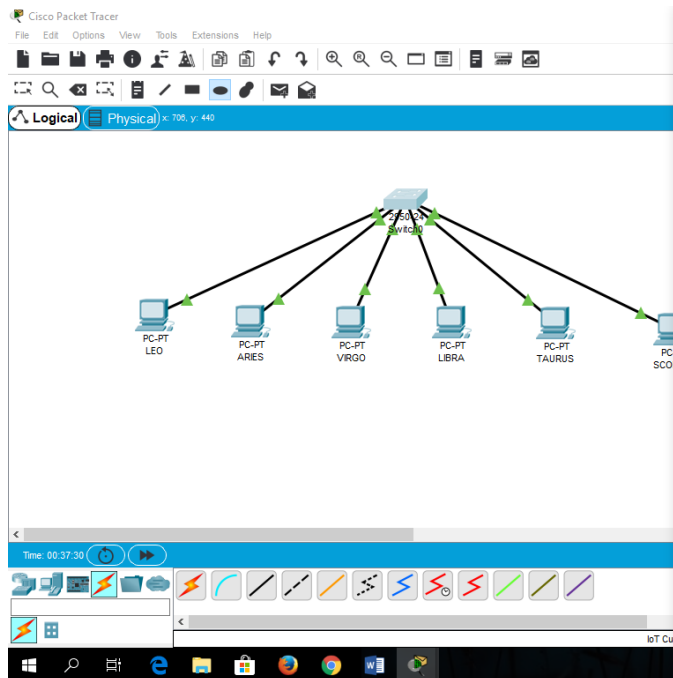
Switch#
  
```

Ctrl+F6 to exit CLI focus

Activate Windows  
Go to Settings to activate Windows.

Top

## Vlan id 30



Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```

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  BrgdMode Transl 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  BrgdMode Transl 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  BrgdMode Transl Trans2
-----
30   enet  100030  1500  -     -     -     -     -       0       0

Switch#
  
```

Ctrl+F6 to exit CLI focus

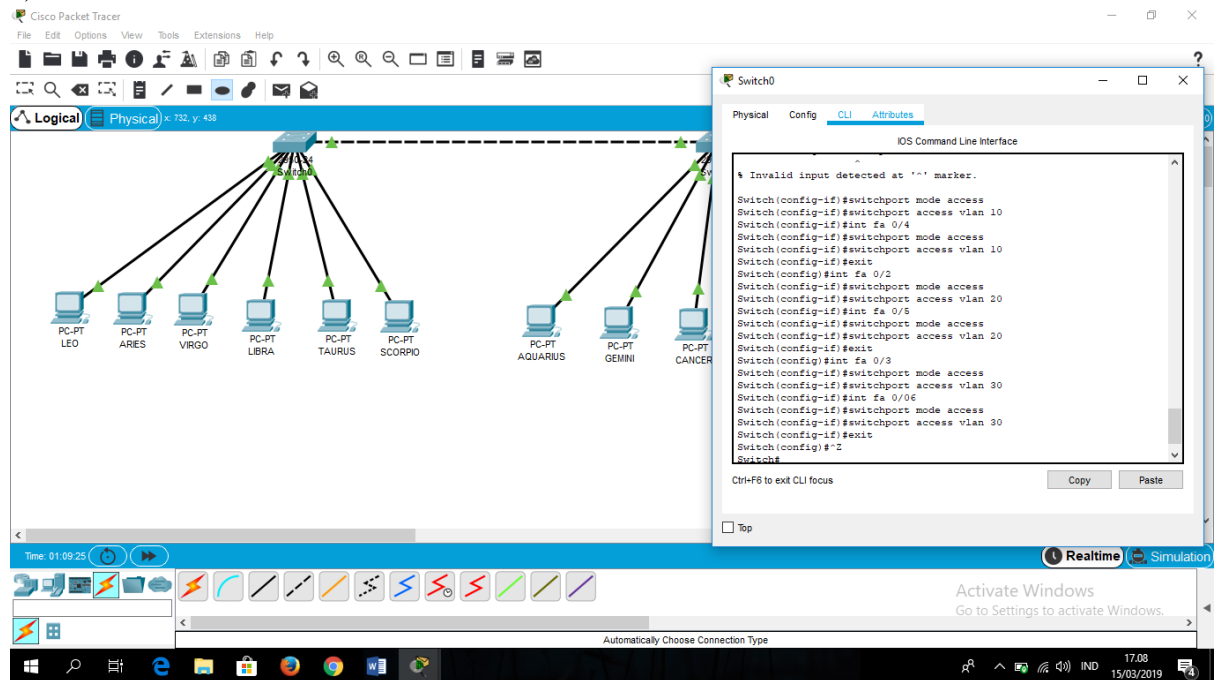
Activate Windows  
Go to Settings to activate Windows.

Top

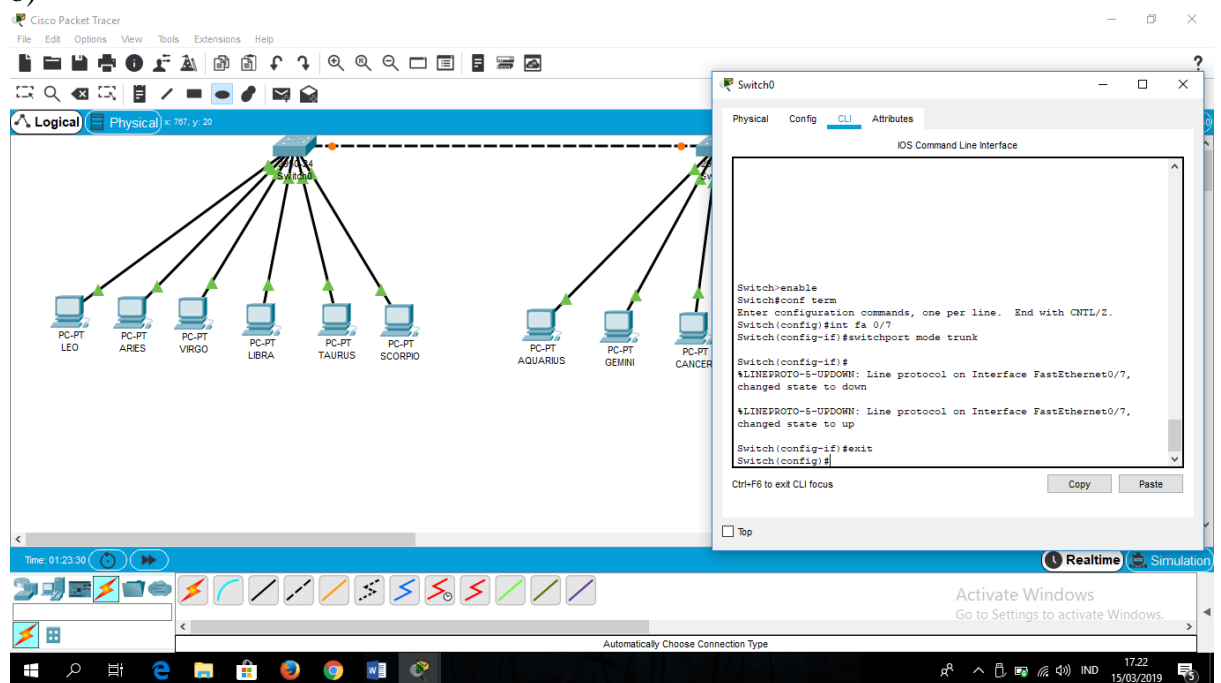
No	Variabel	Nilai		
1	Nomor VLAN	10	20	30
2	Nomor VLAN	Zodiak 1	Zodiak 2	Zodiak 3
3	Nomor VLAN	Fa 0/1, Fa0/4	Fa 0/2, Fa0/5	Fa 0/3, Fa0/6
4	Nomor VLAN	active	active	active

## 2. Topologi 2

a)



b)



c)

The screenshot shows the Cisco Packet Tracer interface. The network topology consists of a central switch (Switch0) connected to several PCs (LEO, ARIES, VIRGO, LIBRA, TAURUS, SCORPIO, AQUARIUS, GEMINI, CANCER). The CLI window is open, showing the configuration of interface Fa0/7.

```

Switch0#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
Operational private-vlan: none
Trunking VLANs Enabled: ALL
Trunking VLANs: 1-1001
Capture Mode Disabled
Capture VLANs Allowed: ALL
Protected: false
Appliance trust: none
  
```

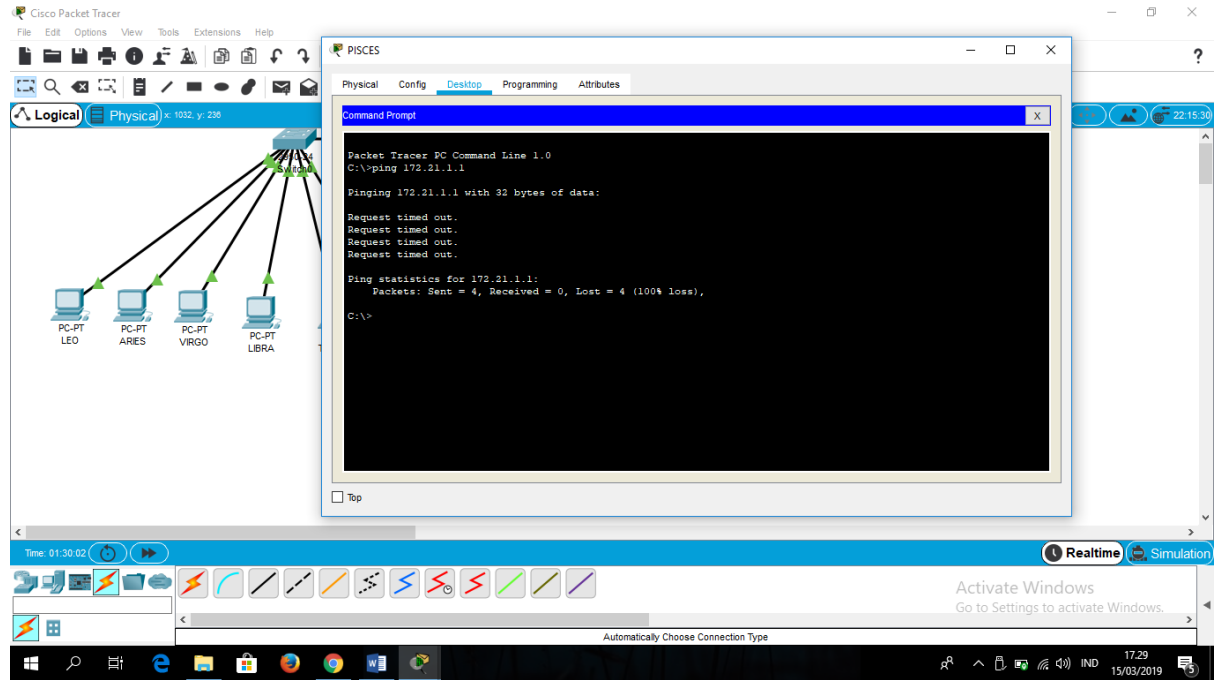
The screenshot shows the Cisco Packet Tracer interface. The network topology is the same as the previous one. The CLI window is open, showing the output of the 'show vlan' command.

```

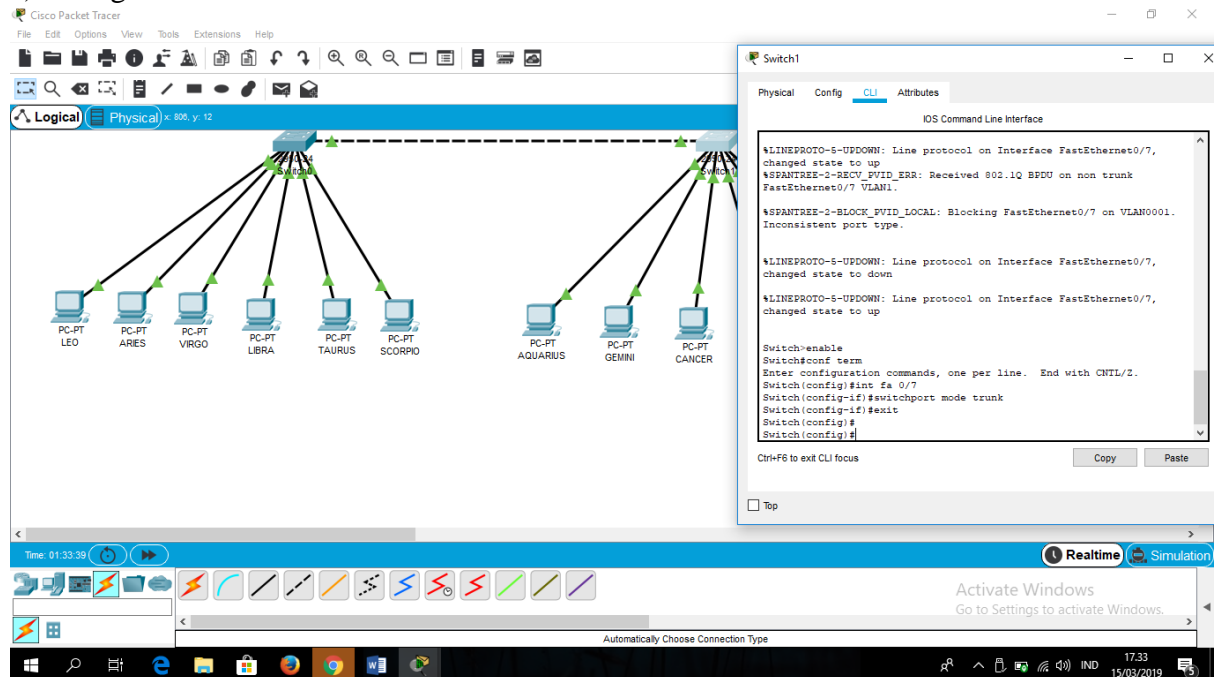
Switch0#show vlan
Invalid input detected at '^' marker.

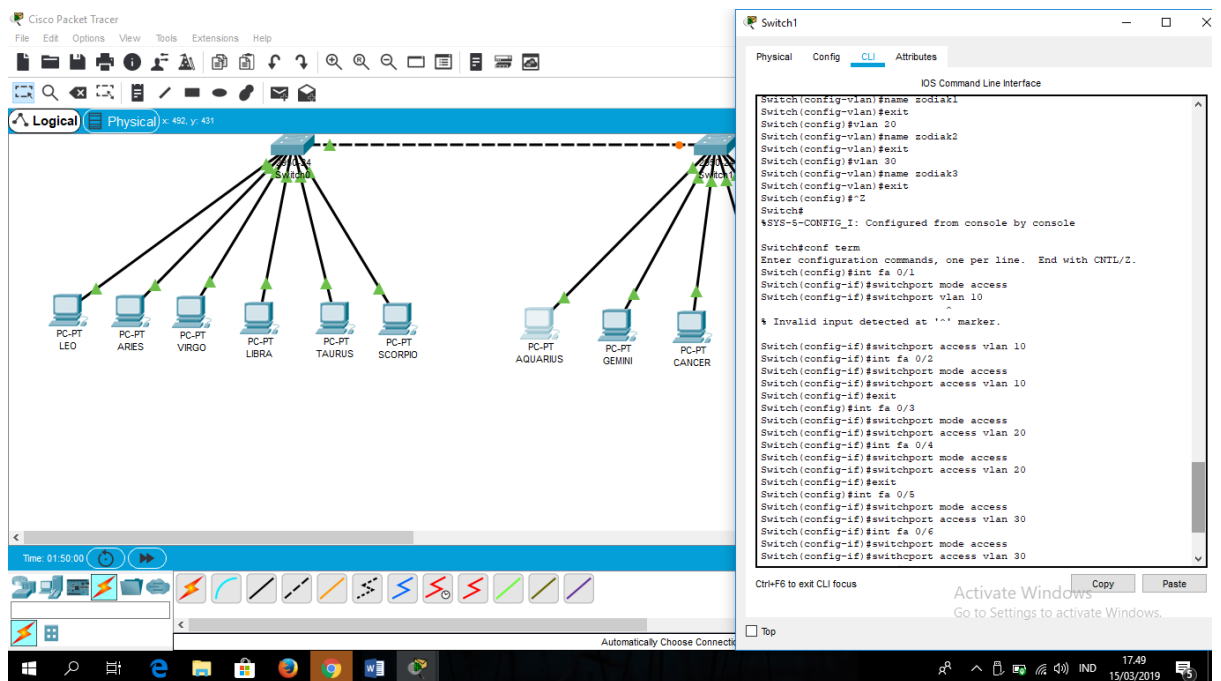
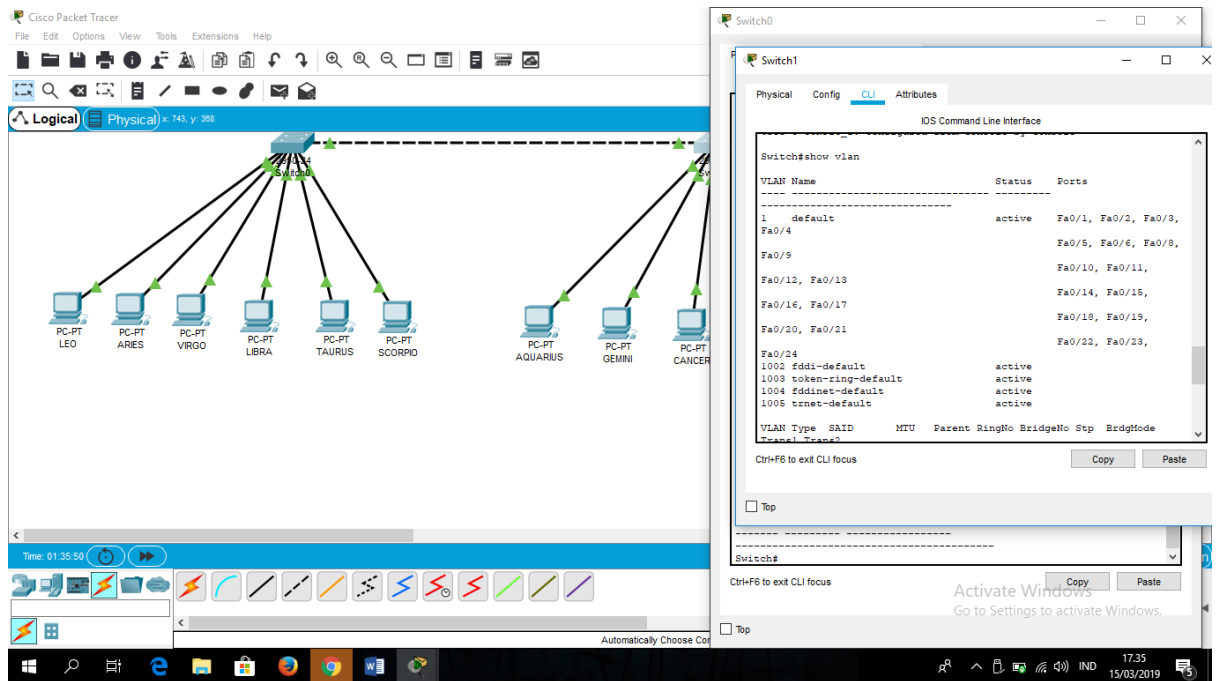
Switch#show vlan
VLAN Name                Status    Ports
-----
1    default                active    Fa0/8, Fa0/9, Fa0/10,
Fa0/11
Fa0/14, Fa0/15
Fa0/18, Fa0/19
Fa0/20, Fa0/21,
Fa0/22, Fa0/23
10   zodiak1                 active    Fa0/24
20   zodiak2                 active    Fa0/1, Fa0/4
30   zodiak3                 active    Fa0/2, Fa0/5
1002 fddi-default            active    Fa0/3, Fa0/6
1003 token-ring-default    active
1004 fddinet-default       active
1005 trnet-default          active
VLAN Type SAID          MTU    Parent RingNo BridgeNo Stp    BrgdMode
-----
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)



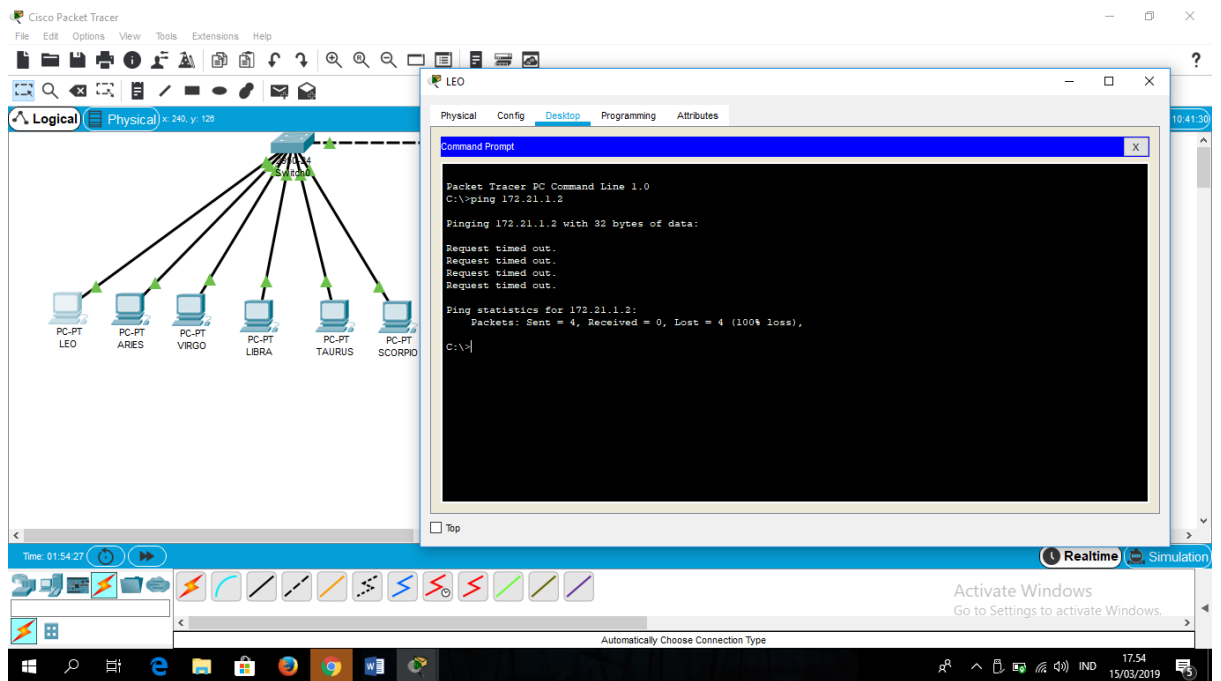
e) konfigurasi vlan switch 1



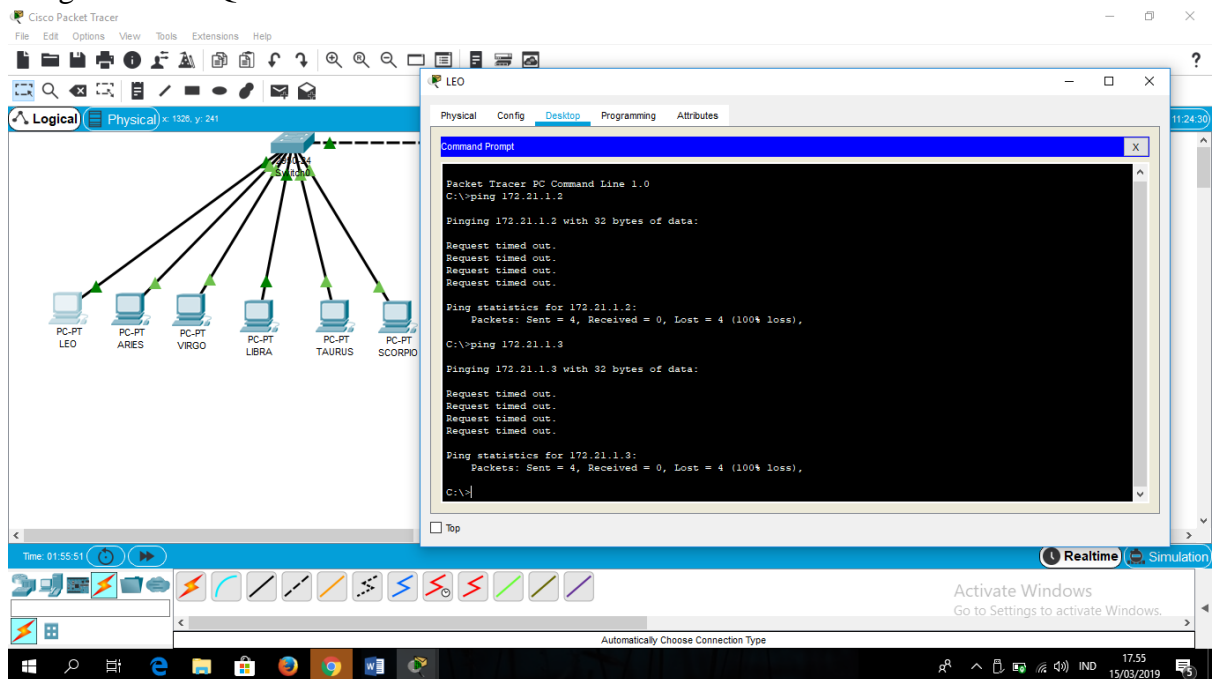


Ping LEO ke ARIES





## Ping LEO ke AQUARIUS



## Ping LEO ke PISCES

The screenshot shows a Cisco Packet Tracer interface. The main workspace displays a network topology with a central switch connected to six PCs: LEO, ARIES, VIRGO, LIBRA, TAURUS, and SCORPIO. The 'Physical' tab is selected. A 'Command Prompt' window is open for the LEO PC, showing the following output:

```
Command Prompt
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 172.21.3.4
Pinging 172.21.3.4 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.3.4:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

The bottom status bar shows the time as 01:57:56 and the simulation mode as 'Realtime'.

## Ping LIBRA ke CANCER

The screenshot shows a Cisco Packet Tracer interface. The main workspace displays a network topology with a central switch connected to five PCs: LEO, ARIES, VIRGO, LIBRA, and TAURUS. The 'Physical' tab is selected. A 'Command Prompt' window is open for the LIBRA PC, showing the following output:

```
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.2.3
Pinging 172.21.2.3 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.2.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

The bottom status bar shows the time as 01:59:30 and the simulation mode as 'Realtime'.

## Ping LIBRA ke LEO

