

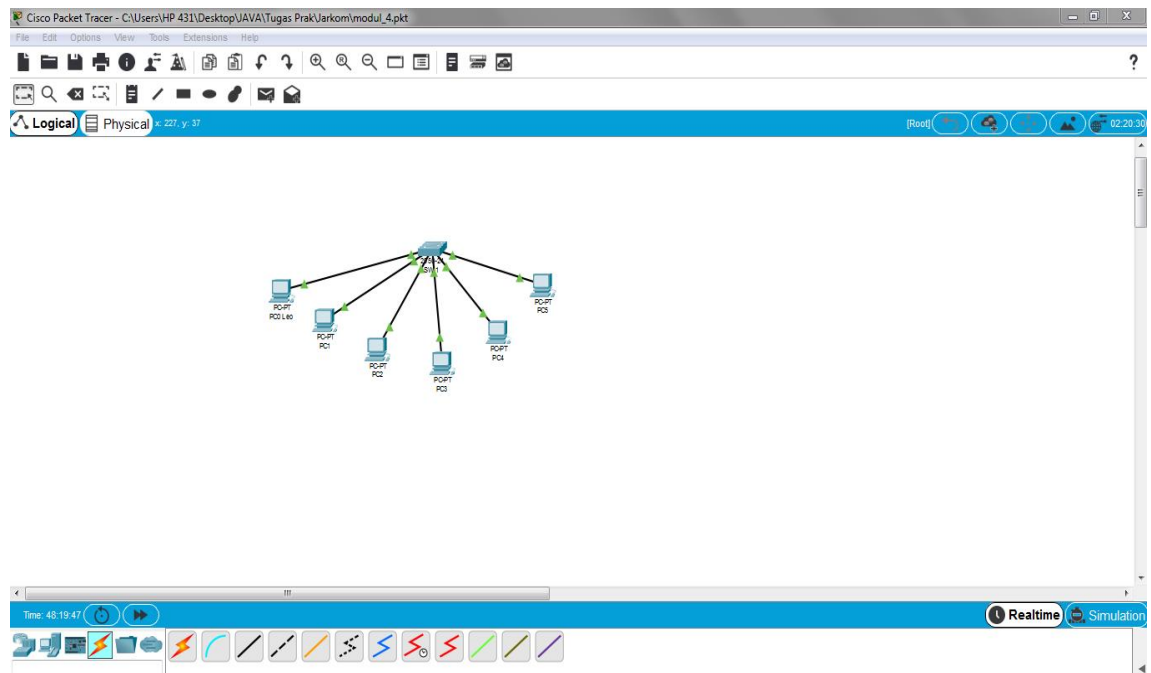
NAMA : MUHAMMAD HIMMAWAN

NIM : L200170161

KELAS : D

MODUL : 4

Kegitan 1:



1.

Desain Rangkaian Topologi

```
Switch#enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#int fa 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchportport access vlan 10
      ^
% Invalid input detected at '^' marker.
```

```
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#vlan 20
Switch(config-vlan)#int fa 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa 0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#vlan 30
Switch(config-vlan)#int fa 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 30
```

2. ~~Switch(config-if)#int fa 0/6~~

```
Switch(config-vlan)#int fa 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchportport access vlan 10
      ^
% Invalid input detected at '^' marker.
```

```
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#vlan 20
Switch(config-vlan)#int fa 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa 0/5
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#exit
Switch(config)#vlan 30
Switch(config-vlan)#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)#switch access vlan 30
Switch(config-if)#exit
Switch(config)#exit
```

3.

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 10

4.

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						

5.

Switch#show vlan 20

% Invalid input detected at '^' marker.

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						

6.

```
Switch#show vlan id 30
```

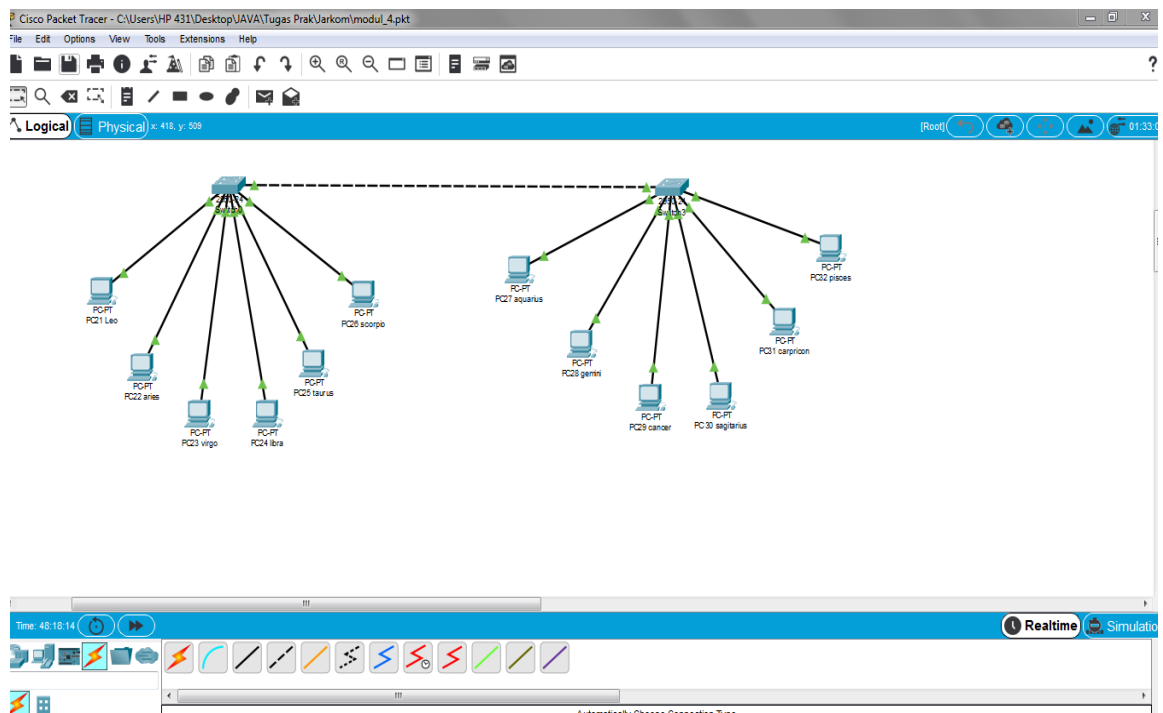
VLAN Name	Status	Ports
30 zodiak3	active	Fa0/3, Fa0/6

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

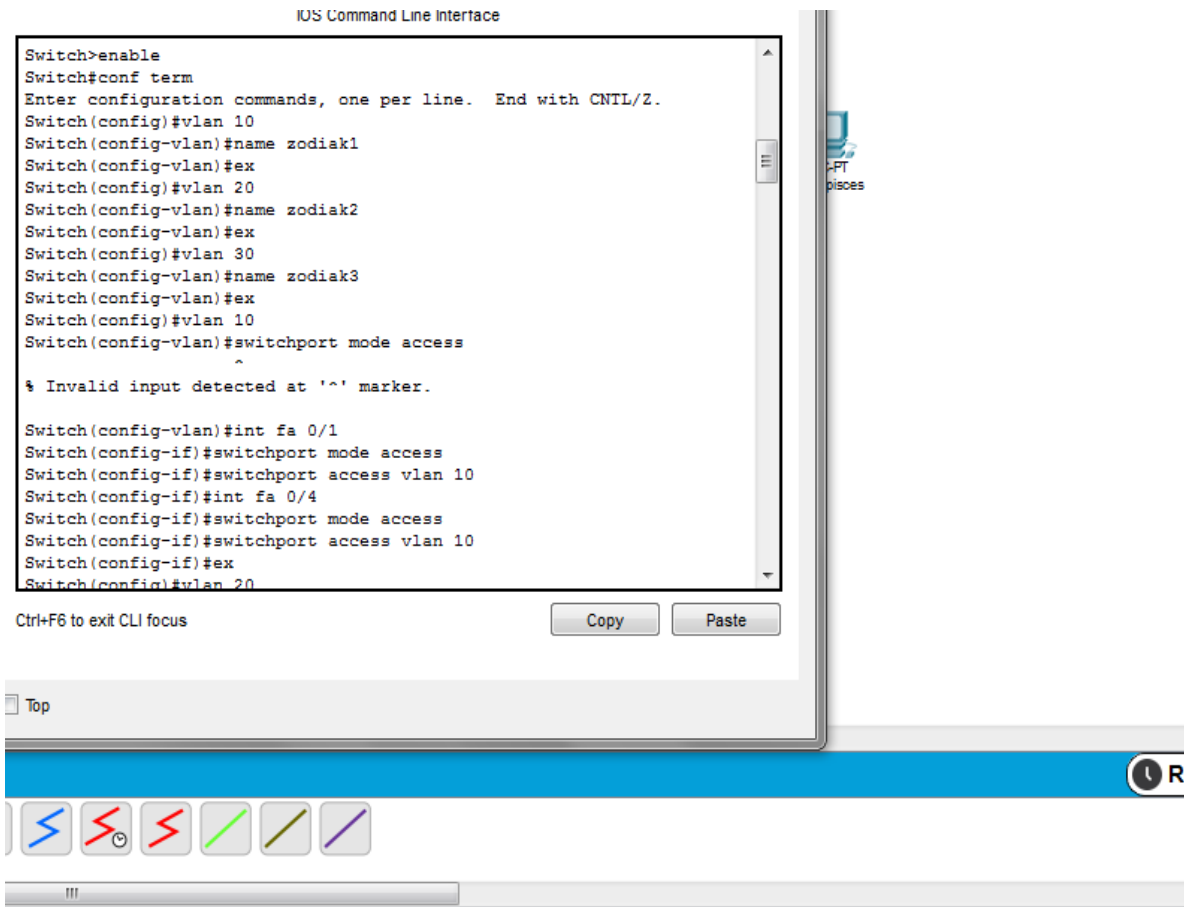
```
Switch#
```

7.

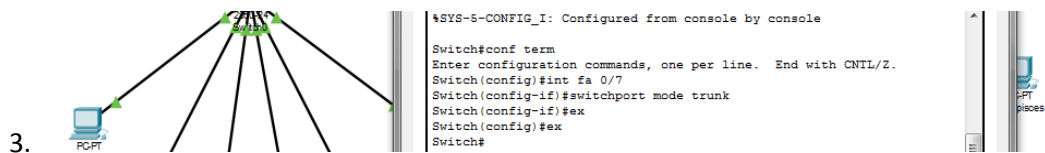
Kegiatan 2:



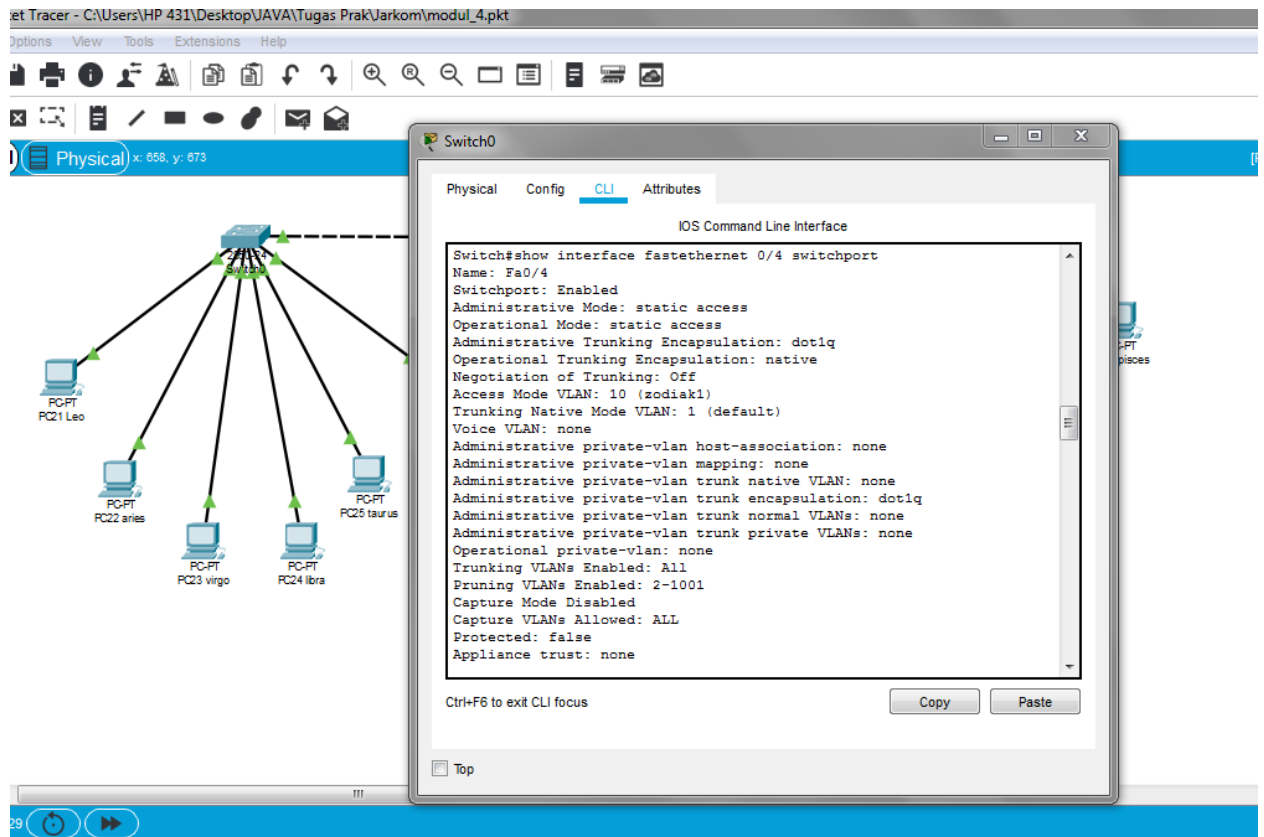
1.



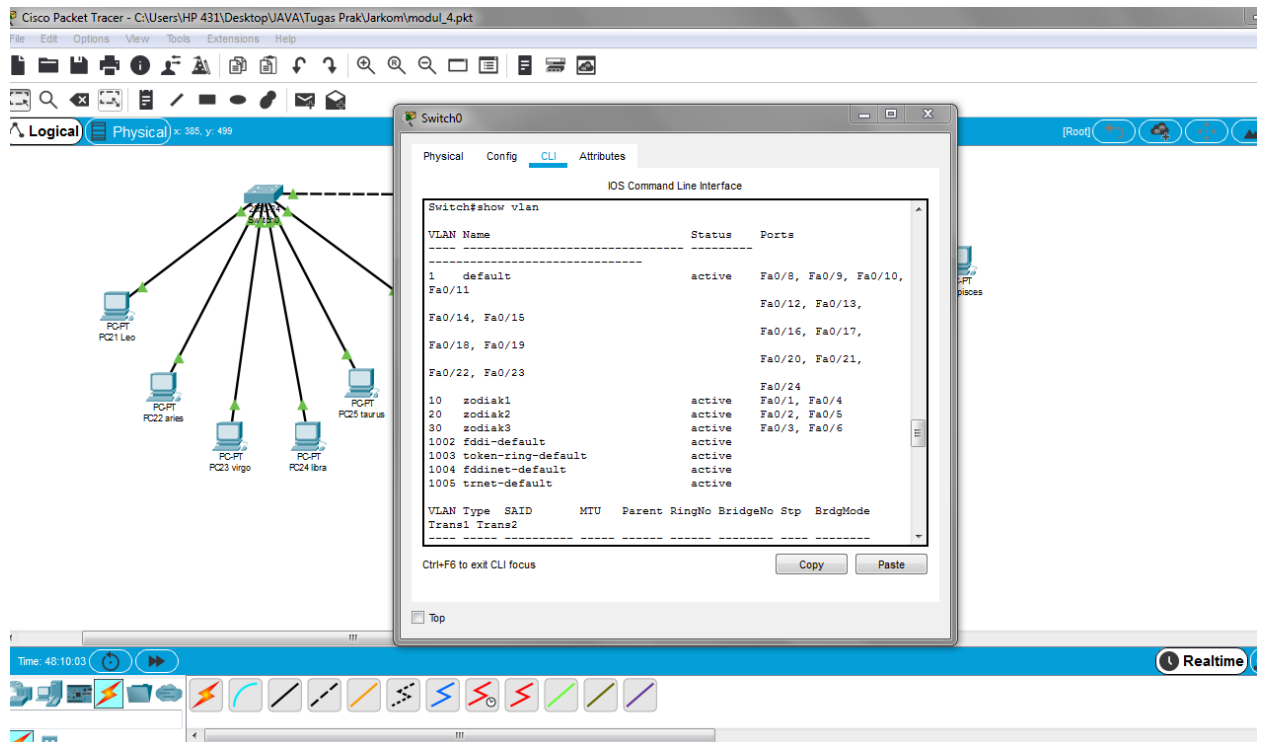
2.



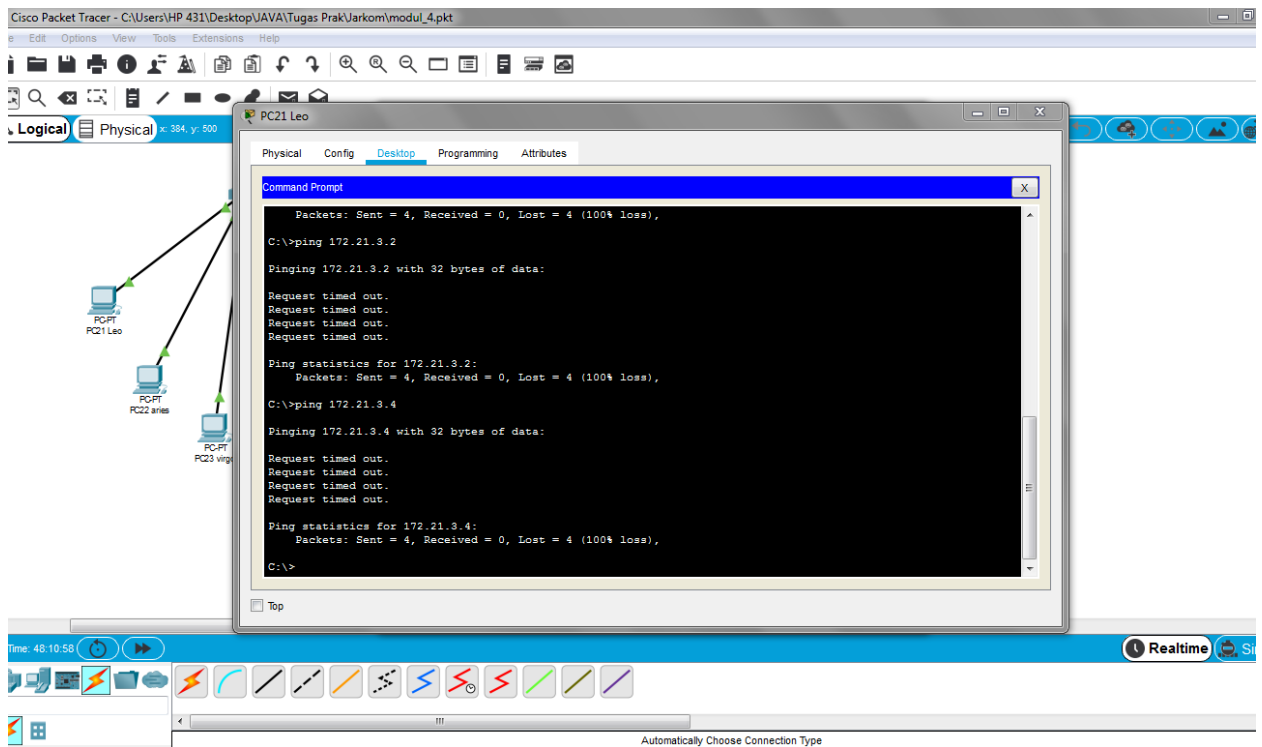
3.



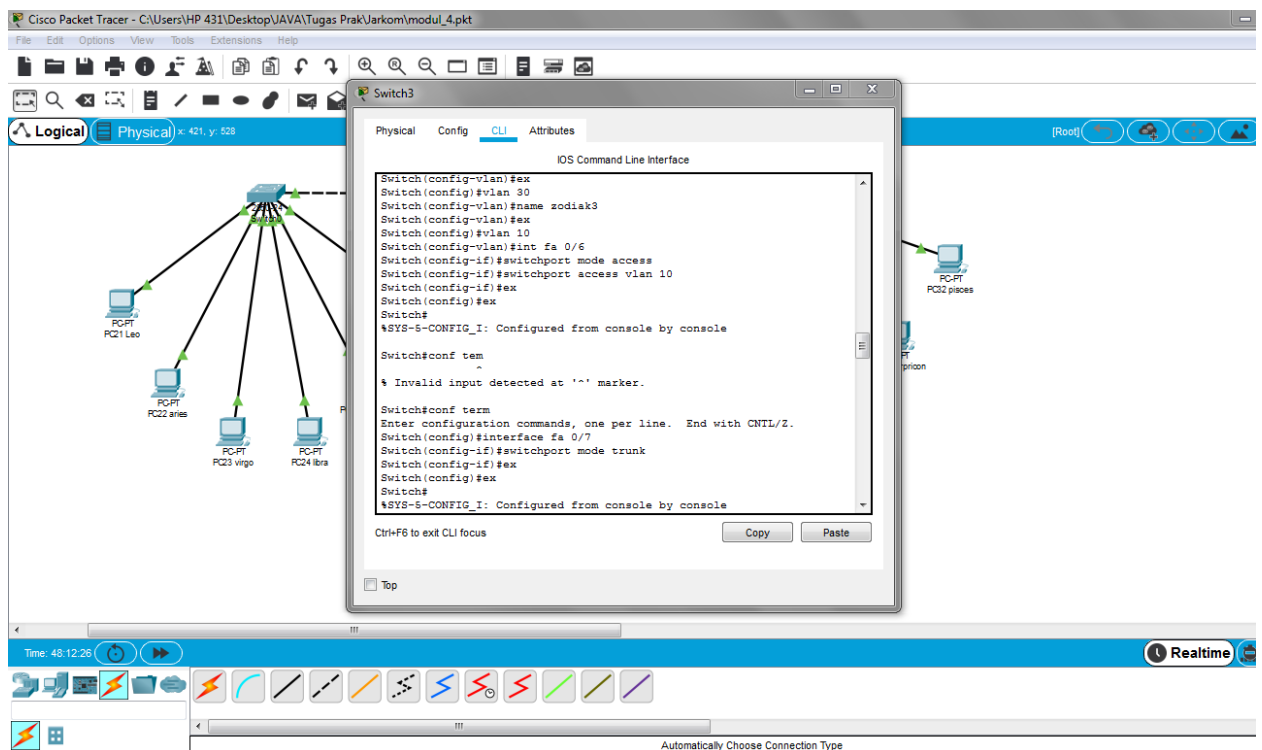
4.



PC LEO ke PC PISCES



5.



6.

Cisco Packet Tracer - C:\Users\HP 431\Desktop\UAVA\Tugas PrakUarkom\modul_4.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 440, y: 525

Switch3

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch#show vlan
```

VLAN Name	Status	Ports
1 default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4, Fa0/10, Fa0/13, Fa0/14, Fa0/17, Fa0/18, Fa0/21, Fa0/22
10 sodiak1	active	Fa0/23, Fa0/24
20 sodiak2	active	Fa0/6
30 sodiak3	active	
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

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Time: 48:13:13

Realtime

Automatically Choose Connection Type

7.

Cisco Packet Tracer - C:\Users\HP 431\Desktop\UAVA\Tugas PrakUarkom\modul_4.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 399, y: 500

Switch3

Physical Config CLI Attributes

IOS Command Line Interface

```
Switch#conf t
Enter configuration commands, one per line. End with CTRL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#int fa 0/1
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa 0/2
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 10
Switch(config-if)#ex
Switch(config)#vlan 20
Switch(config-vlan)#int fa 0/3
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa 0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#ex
Switch(config)#vlan 30
Switch(config-vlan)#int fa 0/5
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
```

Ctrl+F6 to exit CLI focus

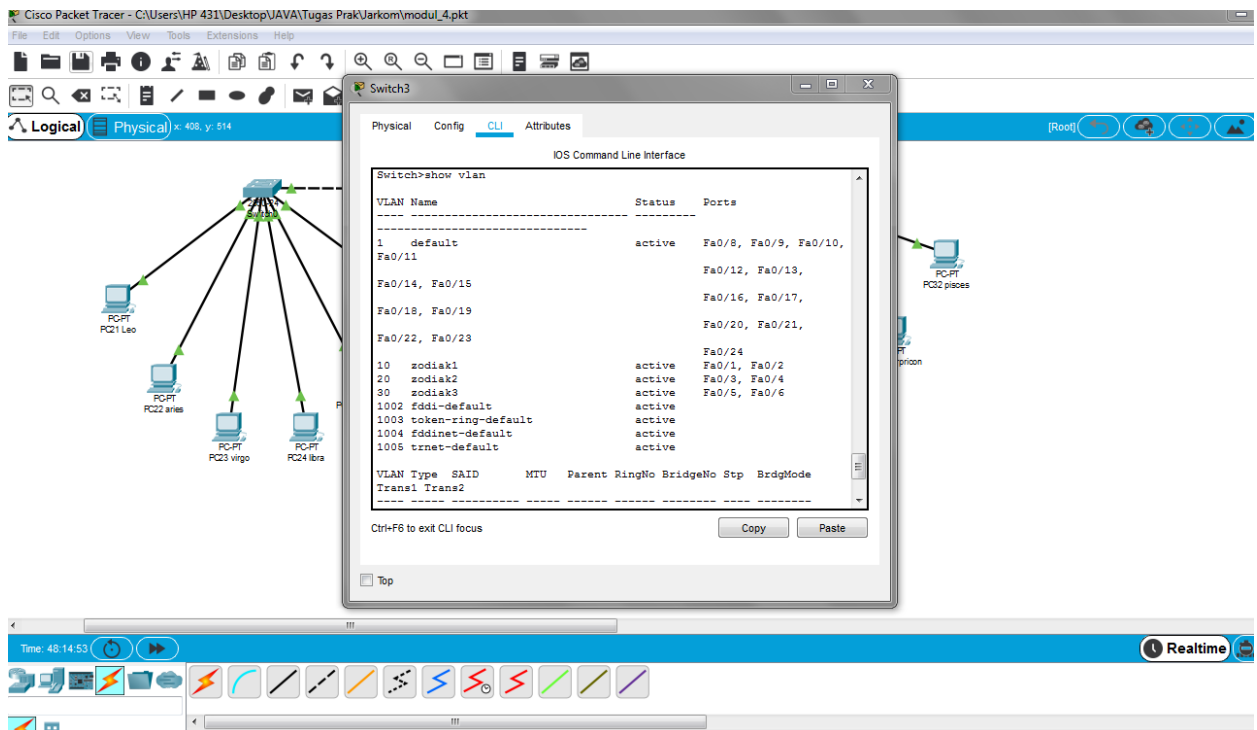
Copy Paste

Top

Time: 48:14:28

Realtime

8.



PC LEO ke PC ARIES

```
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.
```

9.

PC LEO ke PC AQUARIUS

```
C:\>ping 172.21.3.2

Pinging 172.21.3.2 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.3.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

PC LEO ke PC PISCES

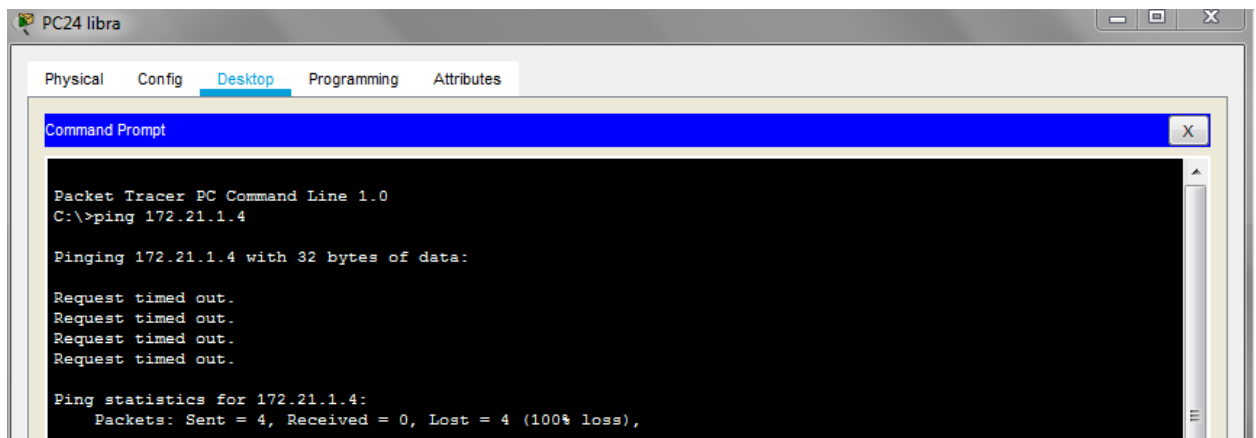
```
Pinging 172.21.3.4 with 32 bytes of data:

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:\>
```

PC LIBRA ke PC CANCER



The screenshot shows the 'PC24 libra' application window with the 'Desktop' tab selected. A 'Command Prompt' window is open, displaying the output of a ping command to 172.21.1.4. The output shows four 'Request timed out' messages and a summary indicating 100% packet loss.

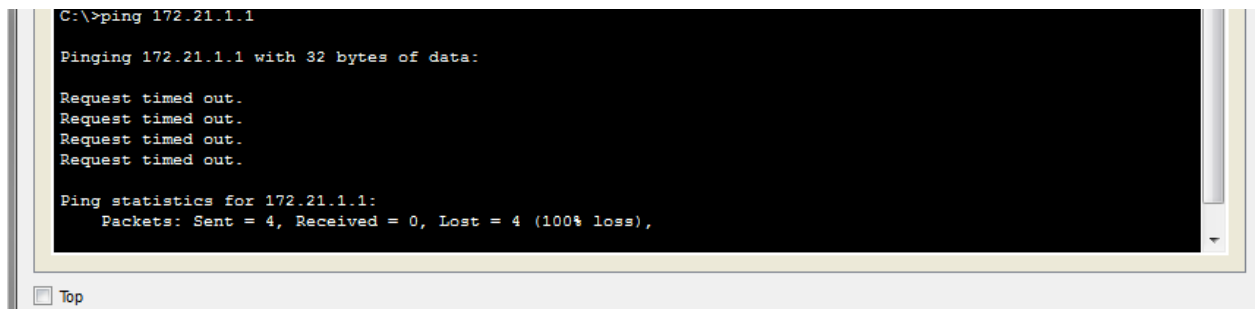
```
Packet Tracer PC Command Line 1.0
C:\>ping 172.21.1.4

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),
```

PC LIBRA ke PC LEO



The screenshot shows the 'PC24 libra' application window with the 'Desktop' tab selected. A 'Command Prompt' window is open, displaying the output of a ping command to 172.21.1.1. The output shows four 'Request timed out' messages and a summary indicating 100% packet loss.

```
C:\>ping 172.21.1.1

Pinging 172.21.1.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.21.1.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Kesimpulan :

Bahwa setiap kita ingin menyambungkan satu PC dengan PC yang harus sama dengan satu port VLAN yang sama agar dapat terhubung. Apabila beda VLAN maka akan terjadi Request Time Out.