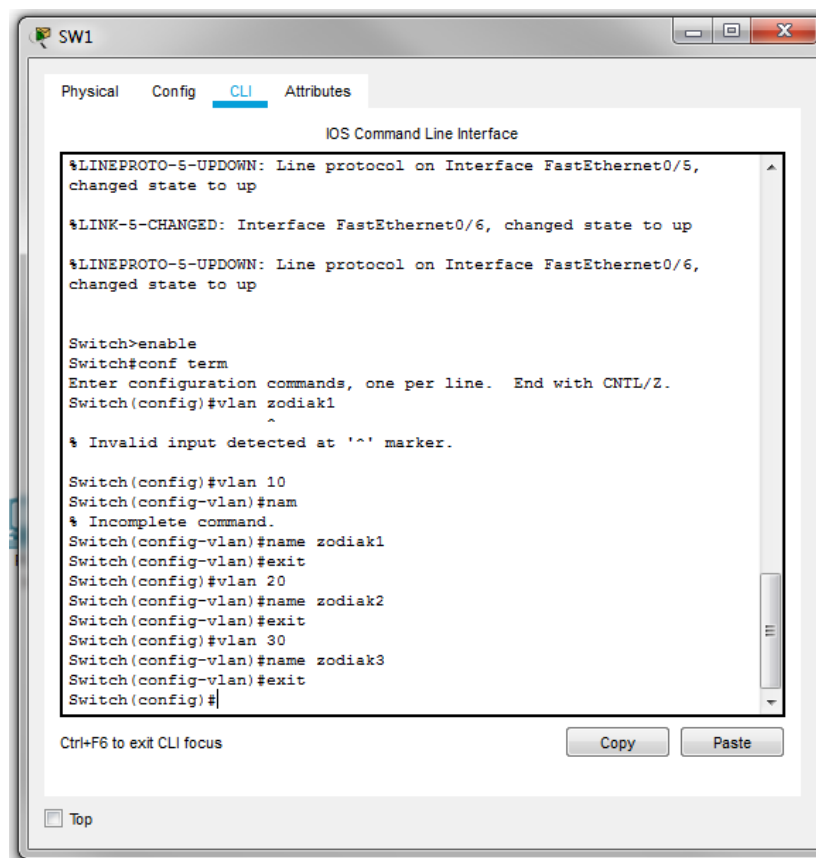
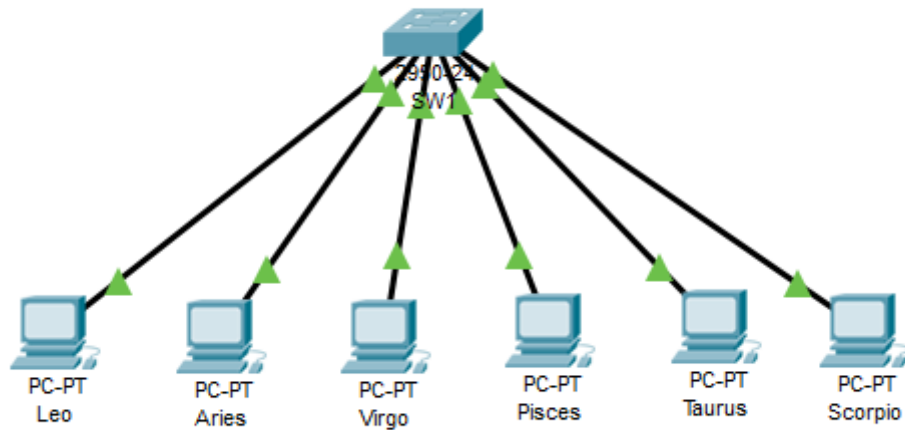
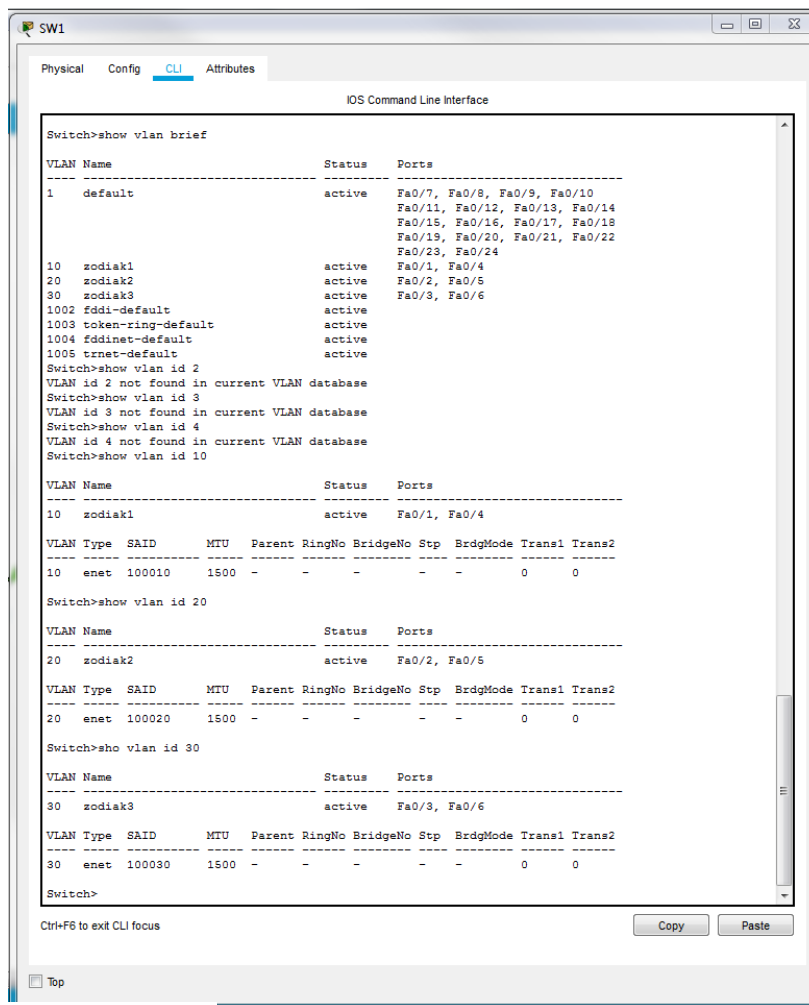


## 1. Keg 1



Setting up VLAN



VLAN Inormation

6A

No	Variable	Value
1	Vlan Number	10
2	Vlan Name	zodiak1
3	Port	Fa0/1,Fa0/4
4	Status	Active

No	Variable	Value
1	Vlan Number	20
2	Vlan Name	zodiak2
3	Port	Fa0/2,Fa0/5
4	Status	Active

No	Variable	Value
1	Vlan Number	30
2	Vlan Name	zodiak3
3	Port	Fa0/3,Fa0/6
4	Status	Active

**6B :** The result indicate that all of the VLAN are active and port Fa0/1,Fa0/4 has been configured to zodiak1, port Fa0/2,Fa0/5 has been configured to zodiak2, and port Fa0/3,Fa0/6 has been configured to zodiak3

```
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Link-local IPv6 Address.....: FE80::209:7CFF:FE07:509B
    IP Address.....: 172.21.1.1
    Subnet Mask.....: 255.255.0.0
    Default Gateway.....: 0.0.0.0

Bluetooth Connection:

    Link-local IPv6 Address.....: ::
    IP Address.....: 0.0.0.0
    Subnet Mask.....: 0.0.0.0
    Default Gateway.....: 0.0.0.0

C:\>ping 172.21.1.5

Pinging 172.21.1.5 with 32 bytes of data:

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

Ping statistics for 172.21.1.5:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 172.21.1.4

Pinging 172.21.1.4 with 32 bytes of data:

Reply from 172.21.1.4: bytes=32 time=26ms TTL=128
Reply from 172.21.1.4: bytes=32 time<1ms TTL=128
Reply from 172.21.1.4: bytes=32 time<1ms TTL=128
Reply from 172.21.1.4: bytes=32 time<1ms TTL=128

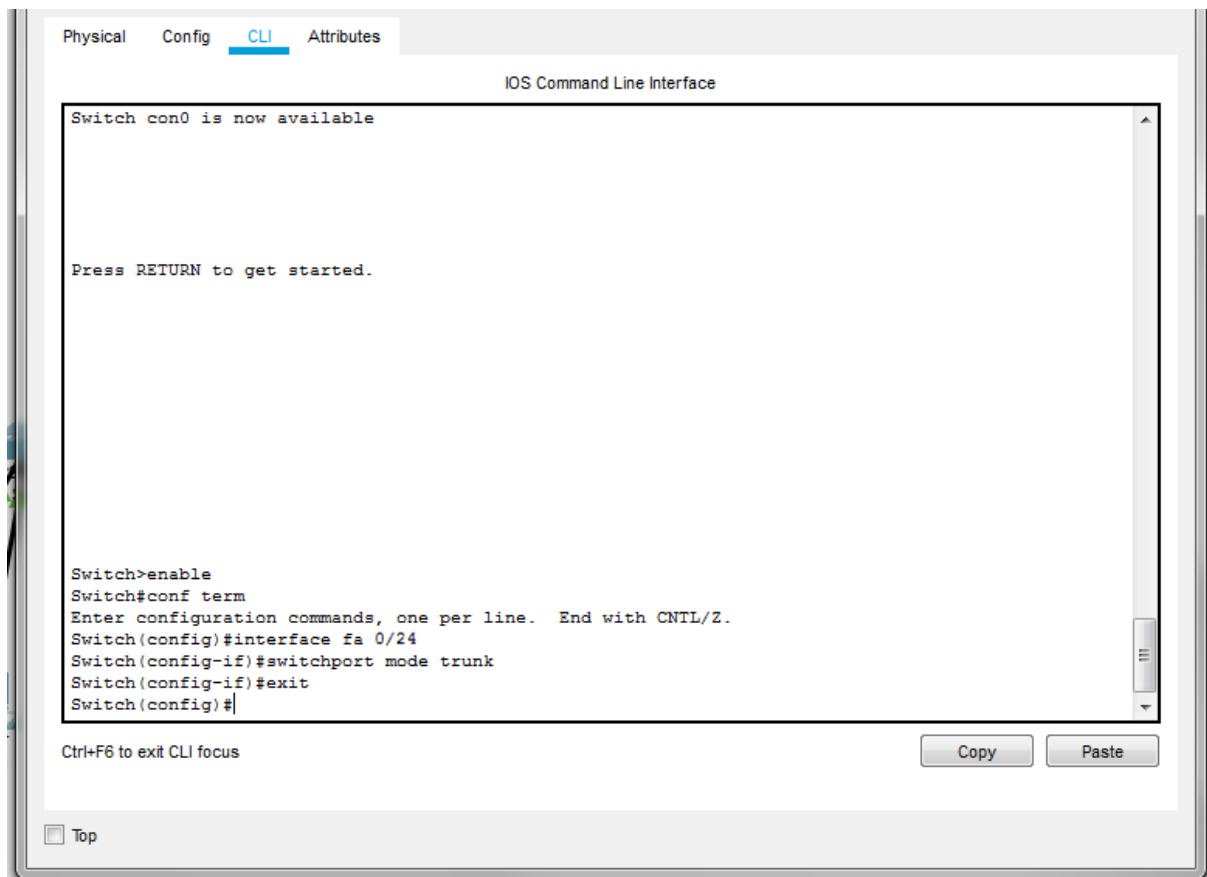
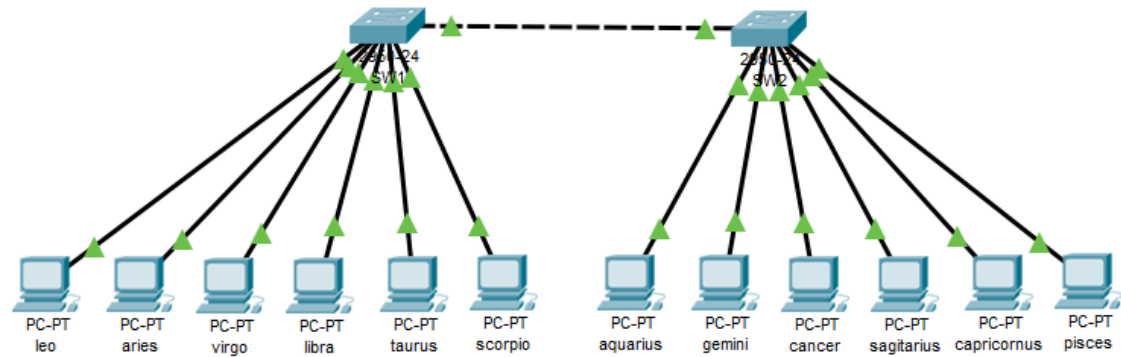
Ping statistics for 172.21.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 26ms, Average = 6ms

C:\>
```

Ping from PC leo (172.21.1.1) to PC Taurus (172.21.1.5) result in time out.

Ping from PC leo (172.21.1.1) to PC Libra (172.21.1.4) works fine indicates that the VLAN configuration works

## 2. Keg 2



Trunk configuration on SW1 after vlan configuration

```

Switch>show interface fastethernet0/24 switchport
Name: Fa0/24
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: down
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

```

**show interface  
fastethernet 0/24  
switchport**

```
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	

**Show vlan result**

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
1	enet	100001	1500	-	-	-	-	-	0	0

Remote SPAN VLANs

Primary	Secondary	Type	Ports
1	10	enet	Fa0/1, Fa0/4

**7A** The result indicate that all of the VLAN are active and port Fa0/1,Fa0/4 has been configured to zodiak1, port Fa0/2,Fa0/5 has been configured to zodiak2, and port Fa0/3,Fa0/6 has been configured to zodiak3

```
leo
Physical Config Desktop Programming Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection: (default port)

Link-local IPv6 Address . . . . . : FE80::2D0:97FF:FE56:906E
IP Address. . . . . : 172.21.1.1
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . : 0.0.0.0

Bluetooth Connection:

Link-local IPv6 Address . . . . . : ::
IP Address. . . . . : 0.0.0.0
Subnet Mask . . . . . : 0.0.0.0
Default Gateway . . . . . : 0.0.0.0

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:\>ping 172.21.2.2

Pinging 172.21.2.2 with 32 bytes of data:

Reply from 172.21.2.2: bytes=32 time<1ms TTL=128
Reply from 172.21.2.2: bytes=32 time<1ms TTL=128
Reply from 172.21.2.2: bytes=32 time<1ms TTL=128
Reply from 172.21.2.2: bytes=32 time<1ms TTL=128

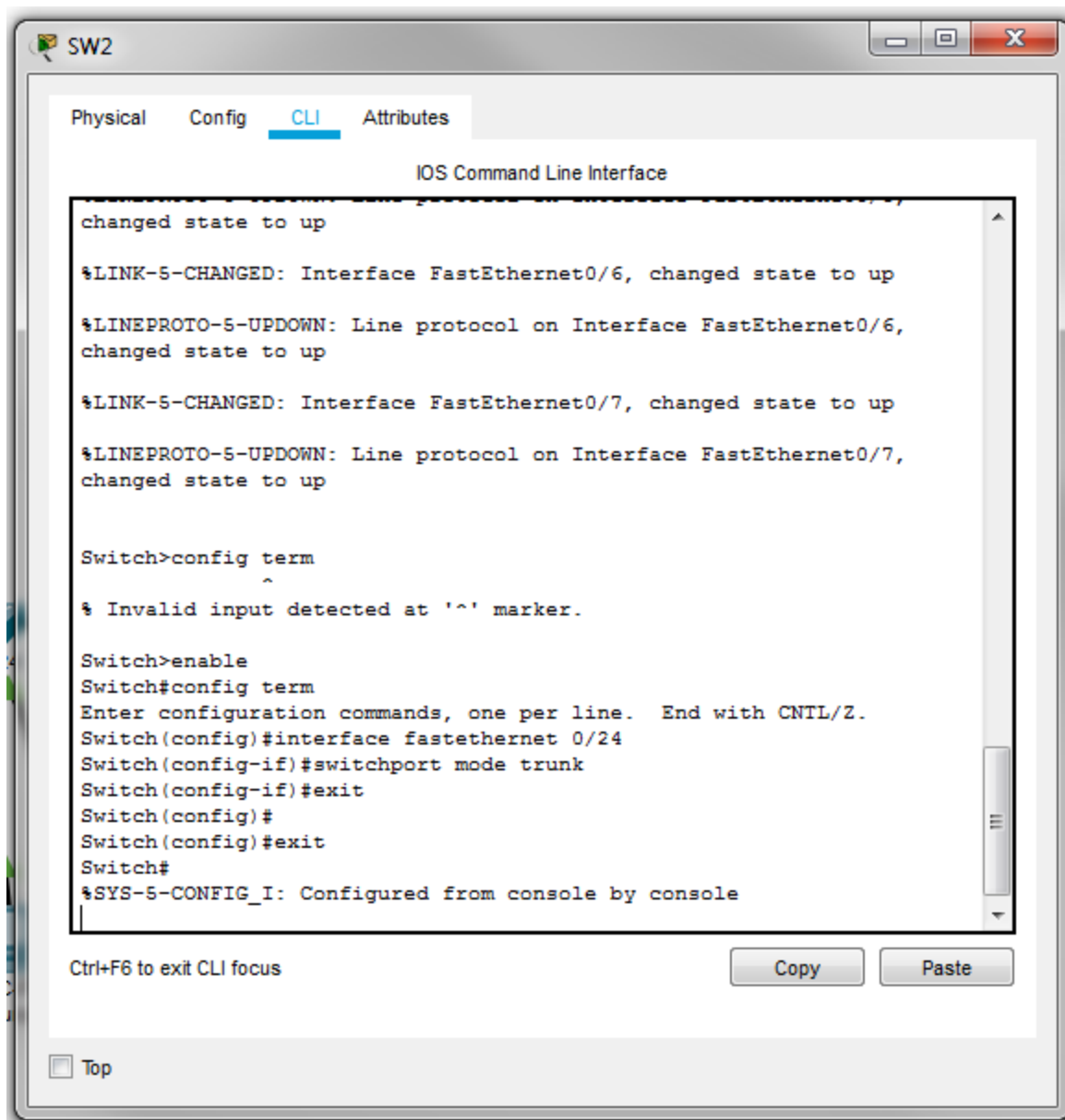
Ping statistics for 172.21.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

8A

Ping from PC leo (172.21.1.1) to PC pisces (172.21.3.4) resulted in time out because they are in a different VLAN port and switch

Ping from PC leo (172.21.1.1) to PC libra (172.21.2.2) resulted in reply because they are in the same VLAN port configuration and switch



Configuration of VLAN trunking for switch 2 (SW2)

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	

Show vlan result

10A

Port Fa0/24 has been configured for VLAN trunking

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

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

Remote SPAN VLANs

Primary	Secondary	Type	Ports
---------	-----------	------	-------

SW2

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, Fa0/2
20	zodiak2	active	Fa0/3, Fa0/4
30	zodiak3	active	Fa0/5, 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--

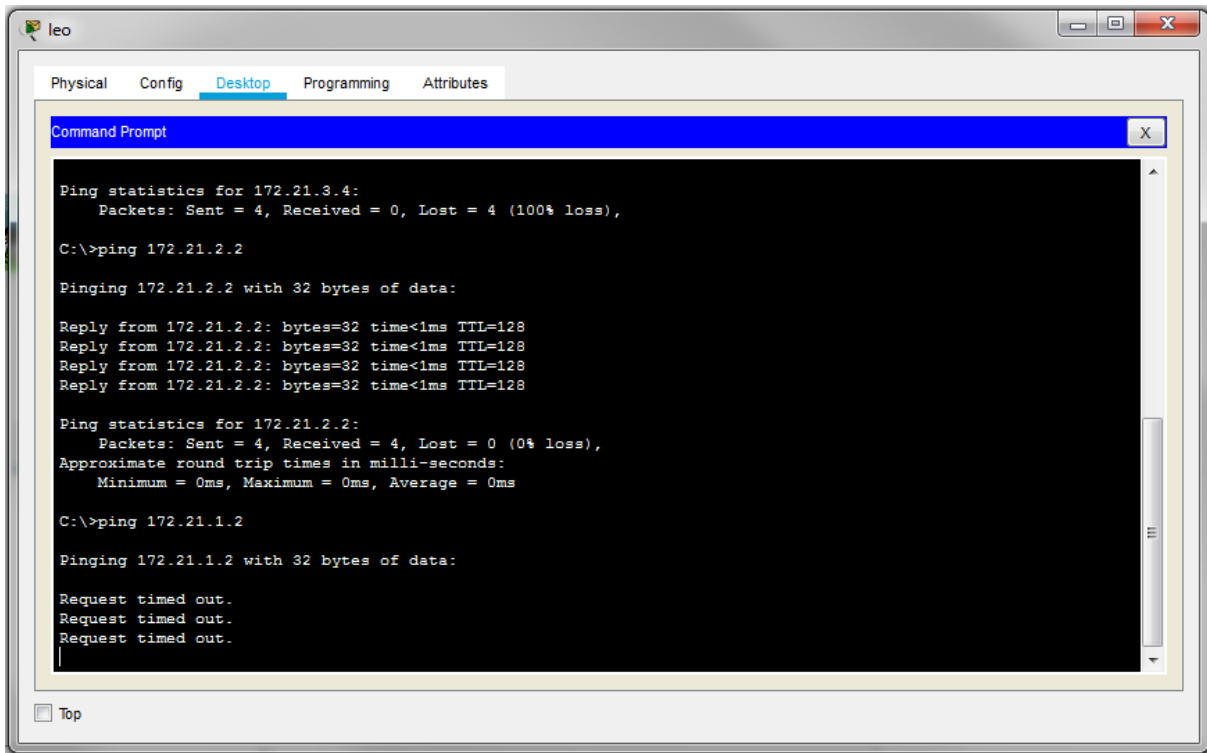
Ctrl+F6 to exit CLI focus

Copy Paste

☐ Top

Vlan configuration for switch 2 (SW2)





The screenshot shows a window titled 'leo' with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The Command Prompt shows the following text:

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

C:\>ping 172.21.2.2

Pinging 172.21.2.2 with 32 bytes of data:

Reply from 172.21.2.2: bytes=32 time<1ms TTL=128
Reply from 172.21.2.2: bytes=32 time<1ms TTL=128
Reply from 172.21.2.2: bytes=32 time<1ms TTL=128
Reply from 172.21.2.2: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.2.2:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 0ms, Average = 0ms

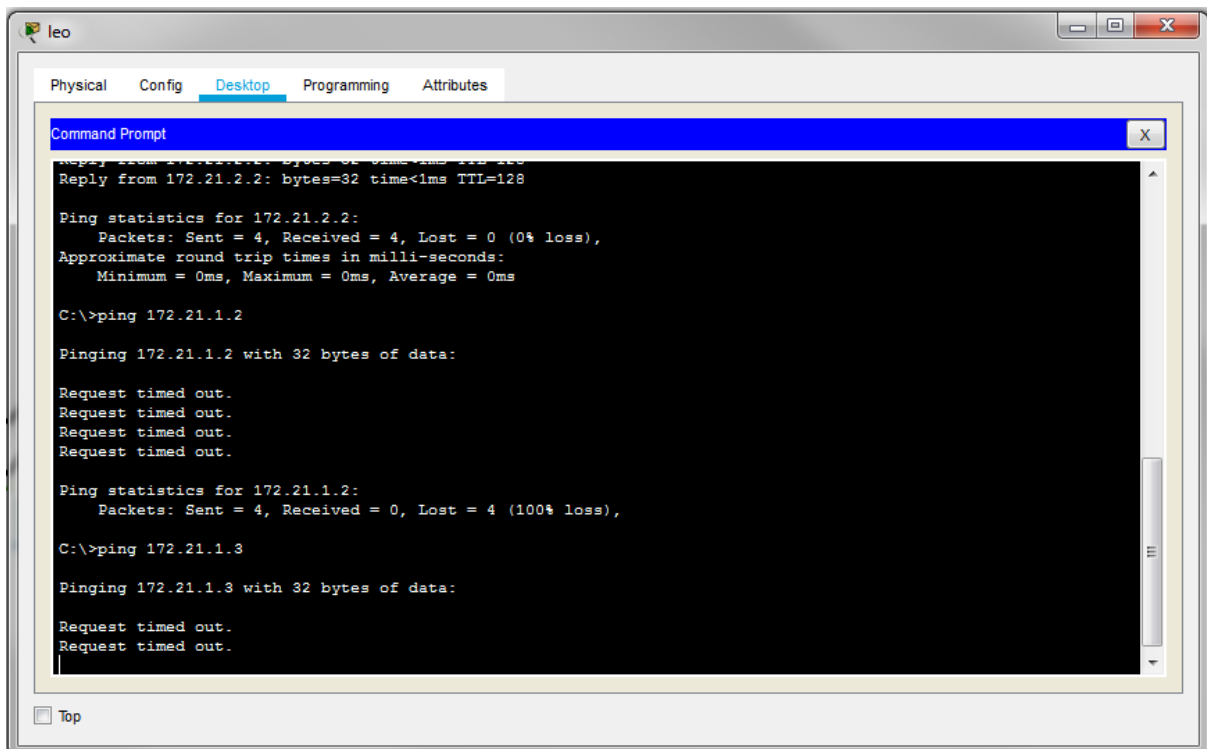
C:\>ping 172.21.1.2

Pinging 172.21.1.2 with 32 bytes of data:

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

A 'Top' button is visible at the bottom left of the Command Prompt window.

Ping from Leo (172.21.1.1) to Aries (172.21.1.2)



The screenshot shows a window titled 'leo' with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Desktop' tab is active, displaying a 'Command Prompt' window. The Command Prompt shows the following text:

```
Reply from 172.21.2.2: bytes=32 time<1ms TTL=128
Reply from 172.21.2.2: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.2.2:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 0ms, Average = 0ms

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),

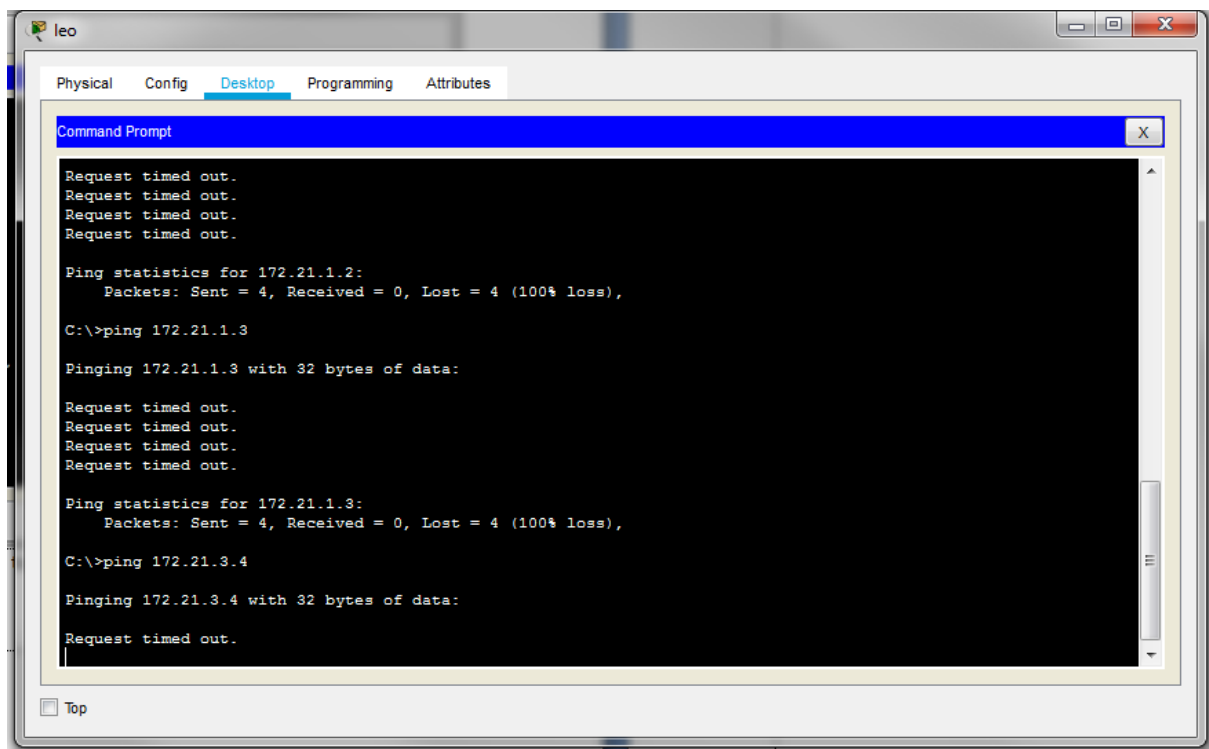
C:\>ping 172.21.1.3

Pinging 172.21.1.3 with 32 bytes of data:

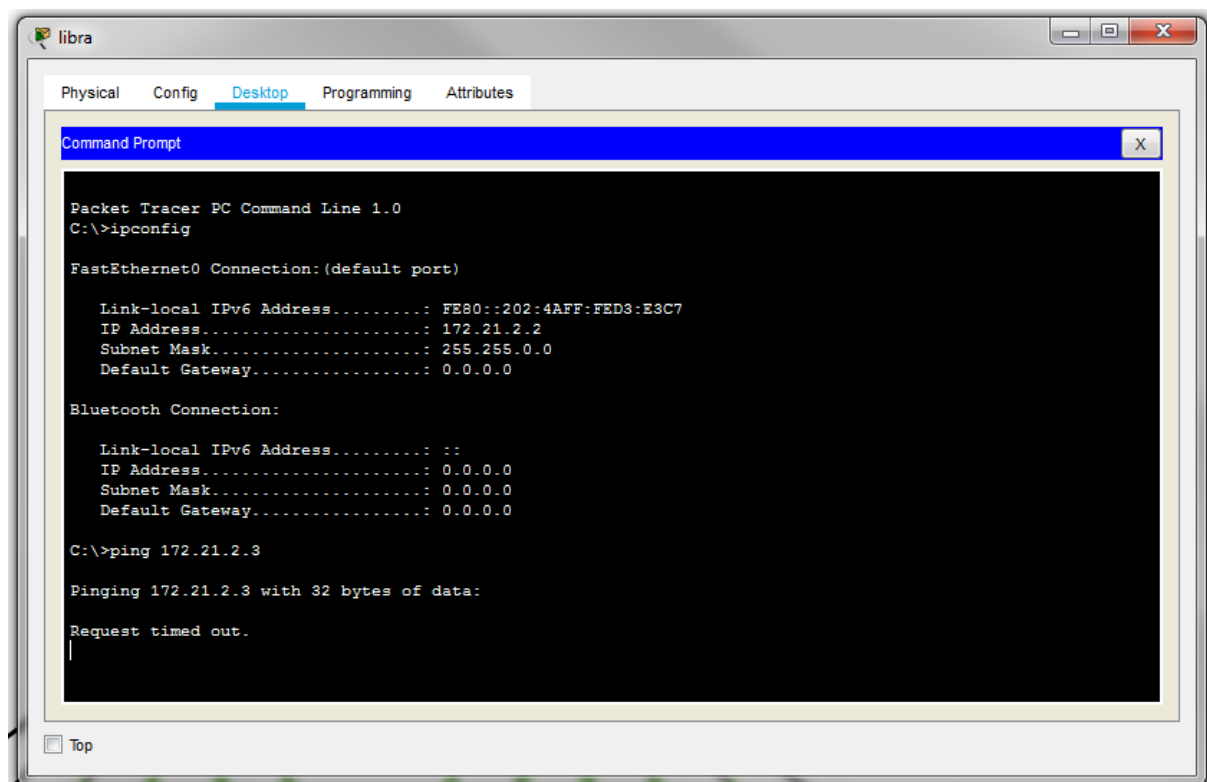
Request timed out.
Request timed out.
```

A 'Top' button is visible at the bottom left of the Command Prompt window.

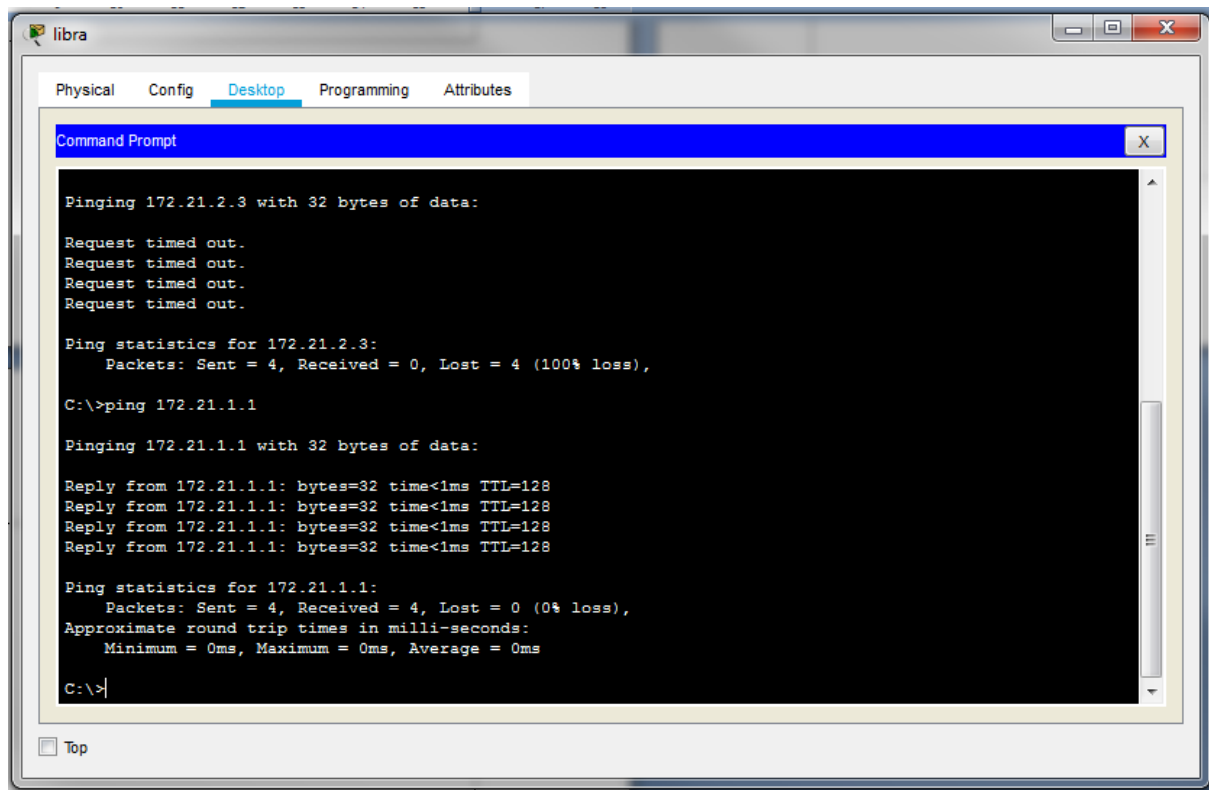
Ping from leo (172.21.1.1) to aquarius (172.21.1.3)



Ping from leo (172.21.1.1) to pisces (172.21.3.4)



Ping from libra (172.21.2.2) to cancer (172.21.2.3)



Ping from libra (172.21.2.2) to leo (172.21.1.1)

## 12A

The result from the pinging are vary between time out and reply. The time out results are due to the PC are on a different network and the reply are due to the PC is on the same network.