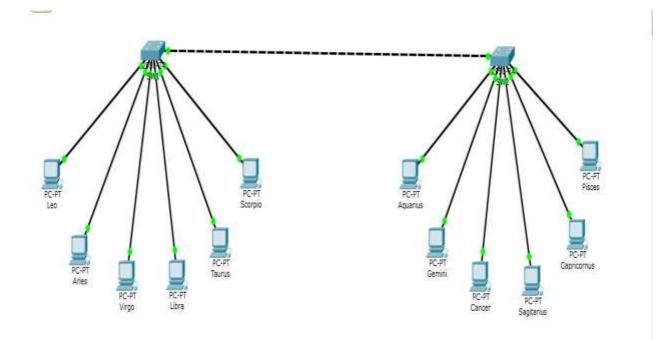
NAME: Farah Husna Paramadina

NIM : L200183094

CLASS: X

Kegiatan 2. Topologi 21. Make the following topology using packet tracer 2. Give the name of each device

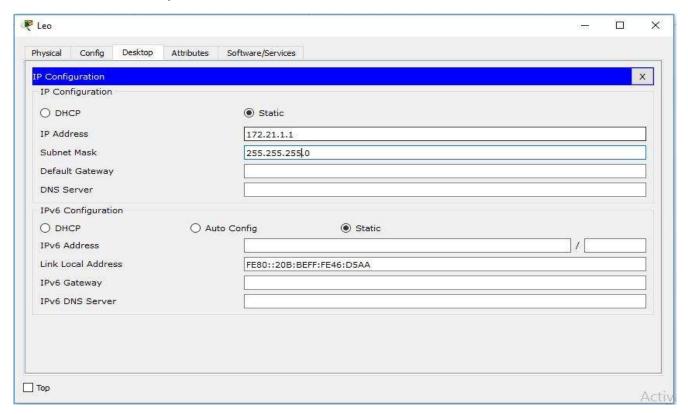
a. Switch1: SW1 h. Switch2: SW2 : Aquarius b. Pc0 : Leo i. Pc6 c. Pc1 : Aries j. Pc7 : Gemini d. Pc2 : Virgo : Cancer k. Pc8 : Sagitarius e. Pc3 : Libra 1. Pc9 : Capricornus f. Pc4 : Taurus m. Pc10 g. Pc5 : Scorpio n. Pc11 : Pisces

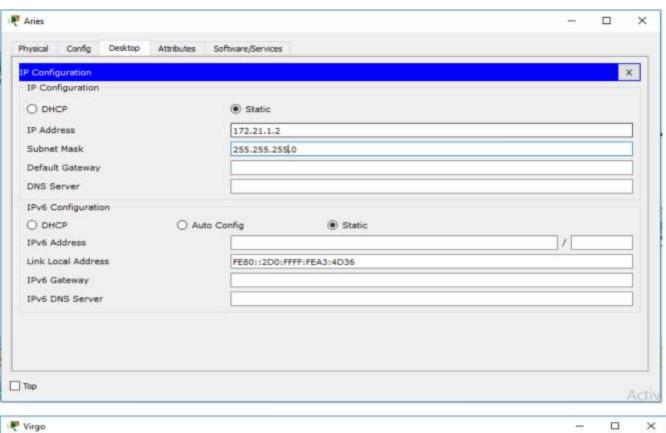


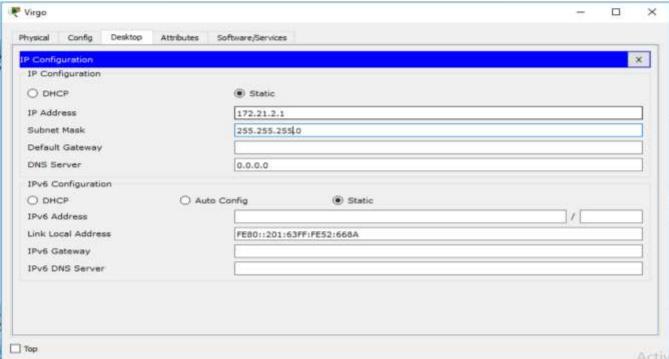
3. Change the configuration of each PC

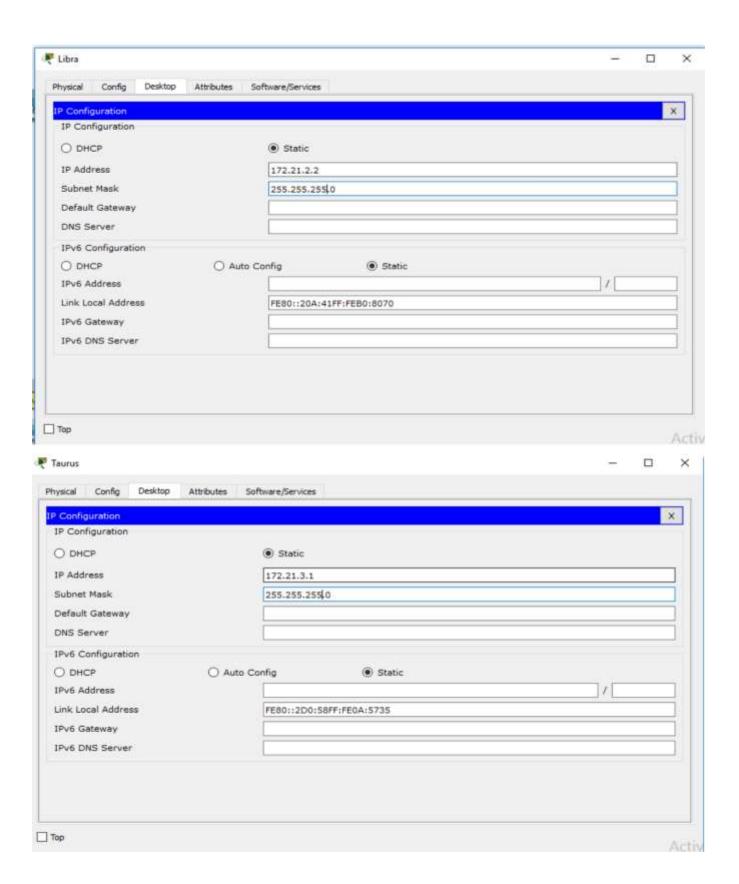
a. Leo : 172.21.1.1/24 b. Aries : 172.21.1.2/24 : 172.21.2.1/24 c. Virgo d. Libra : 172.21.2.2/24 e. Taurus : 172.21.3.1/24 f. Scorpio : 172.21.3.2/24 g. Aquarius : 172.21.1.3/24 h. Gemini : 172.21.1.4/24 i. Cancer : 172.21.2.3/24 Sagitarius : 172.21.2.4/24 k Capricornus: 172.21.3.3/24 1 Pisces : 172.21.3.4/24

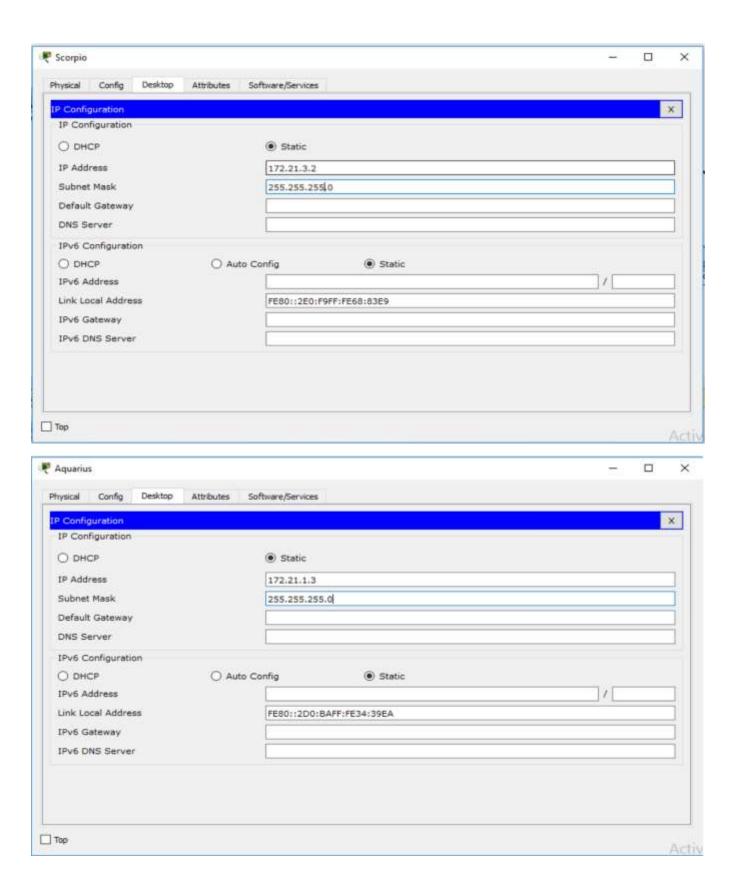
/24 maksudnya adalah masuk kelas c

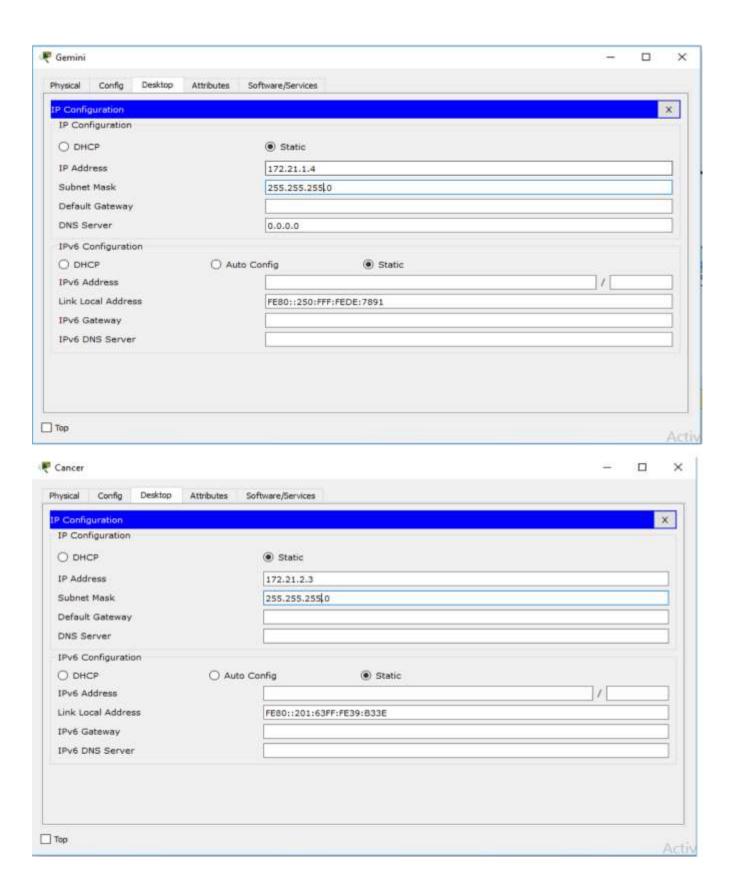


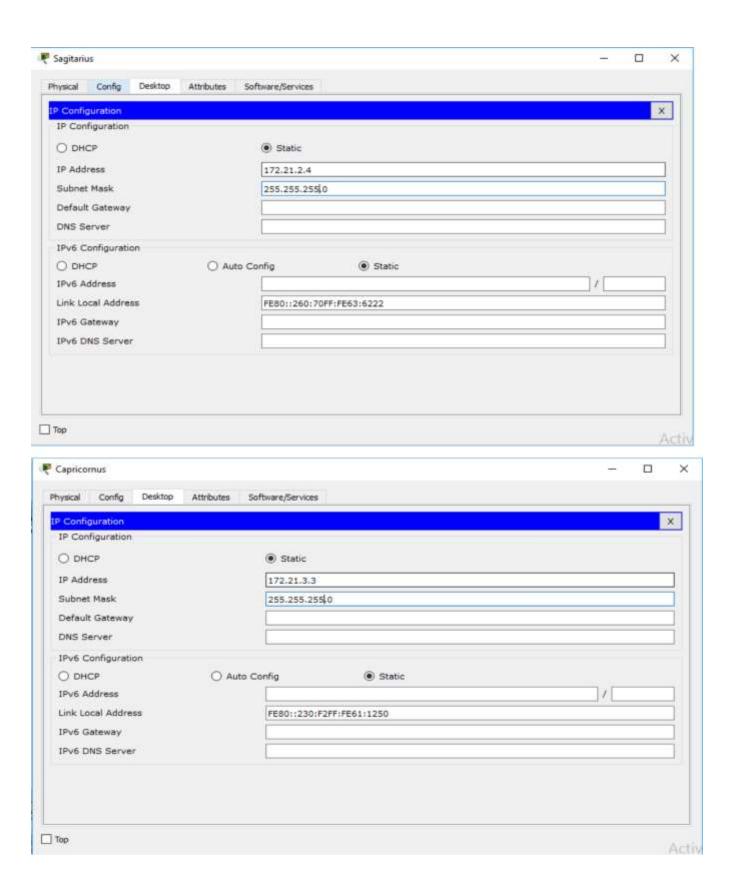


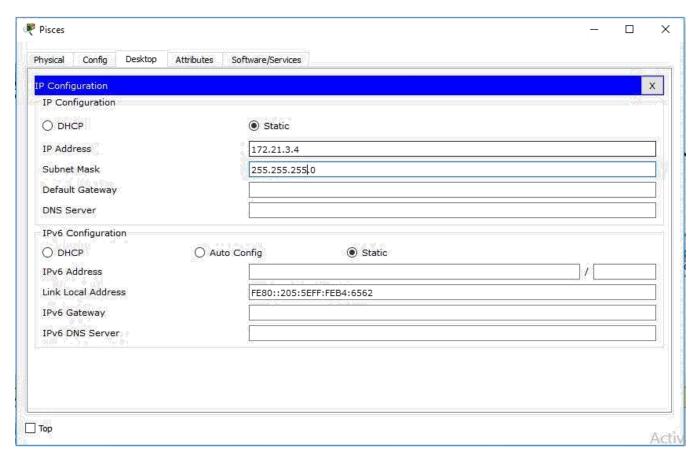












- 4. Make 3 pieces of Vlan with the names zodiac1, zodiac2, and zodiac3
- 5. Then in configuration mode, group the switch ports into the Zodiac1, zodiac2, and zodiac3 VLANs. The setting is:

Zodiak1 : leo and libraZodiak2 : aries and TaurusZodiak3 : virgo dan scorpio

```
Switch>enable
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #vlan 10
Switch(config-vlan) #name zodiak1
Switch (config-vlan) #exit
Switch(config) #vlan 20
Switch (config-vlan) #name zodiak2
Switch(config-vlan) #exit
Switch (config) #vlan 30
Switch(config-vlan) #name zodiak3
Switch (config-vlan) #exit
Switch(config) #int fa 0/1
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
Switch(config-if) #int fa 0/4
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 10
Switch(config-if) #int fa 0/2
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 20
Switch(config-if) #int fa 0/3
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 30
Switch(config-if)#int fa 0/5
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 20
Switch(config-if) #sw mode access
Switch(config-if) #sw access vlan 30
Switch (config-if) #end
%SYS-5-CONFIG_I: Configured from console by console
```

- 6. Configuring VLAN trunking on the switch
 - 1. Rare operation as shown below:

```
Switch#conf term
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface fa 0/24
Switch(config-if)#switchport mode trunk
Switch(config-if)#exit
Switch(config)#
```

7. Configuring the trunking made privileged mode. Operation steps to see the configuration as shown below:

IOS Command Line Interface

```
Switch#conf term
Enter configuration commands, one per line. End with CNTL/2.
Switch(config) #interface fa 0/24
Switch(config-if)#witchport mode trunk
4 Invalid input detected at '-' marker.
Switch (config-if) ##witchport mode trunk
Switch (config-if) #
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to down
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed state to up
Switch (config-if) #ex
Switch (config) sex
Switch#
*SYS-5-CONFIG_I: Configured from console by console
Switch#show interface fastethernet 0/24 switchport
Name: Fa0/24
Switchport: Enabled
Administrative Mode: trunk
Operational Mode: trunk
Administrative Trunking Encapsulation: dotlq
Operational Trunking Encapsulation: dotlg
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: dotlq
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: 2-100
```

Physical | Config | CLI | Attributes |

IOS Command Line In

```
Switch#show interface trunk
                           Encapsulation Status
802.1q trunking
             Mode
                                                               Native vlan
Port
Fa0/24
                                              trunking
            Vlans allowed on trunk
Fa0/24
             1-1005
             Vlans allowed and active in management domain
Port
             1,10,20,30
Fa0/24
Port
              Vlans in spanning tree forwarding state and not pruned
Fa0/24
             1,10,20,30
Switch#show vlan
                                            Status
                                                        Ports
                                                        Fa0/6, Fa0/7, Fa0/9, Fa0/9
Fa0/10, Fa0/11, Fa0/12, Fa0/13
Fa0/14, Fa0/16, Fa0/16, Fa0/17
Fa0/18, Fa0/18, Fa0/20, Fa0/21
     default
                                            active
                                                        Fa0/22, Fa0/23
Fa0/1, Fa0/4
    modiakl
10
                                            active
20
     modiak2
                                            active
                                                        Fa0/2
                                                        Fa0/3, Fa0/5
30
     zodiak3
                                            active
1002 fddi-default
                                             active
1003 token-ring-default
                                            active
1004 fddinet-default
1005 trnet-default
                                            active
VLAN Type SAID
                        MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
     enet 100001
                         1500 -
                                                                            0
                                                                                     o
10
            100010
     enet
                         1500
                                                                            0
                                                                                    0
20
     enet
            100020
                          1500
                                                                            0
                                                                                     0
30
     enet
            100030
                         1500
                                                                            0
                                                                                     0
1002 fddi
            101002
                          1500
                                                                            0
```

```
Physical Config CLI Attributes
                                                                                                  IOS Command
  Switch#show vlan
  VLAN Name
                                             Status
                                                         Ports
                                                         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
                                             active
       default
  10
       zodiak1
                                                         Fa0/1, Fa0/4
                                                       Fa0/2
Fa0/3, Fa0/5
  2.0
      zodiak2
                                              active
  30
       zodiak3
                                              active
  1002 fddi-default
                                              active
  1003 token-ring-default
1004 fddinet-default
                                              active
                                              active
  1005 trnet-default
                                              active
  VLAN Type SAID
                          MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
                                                                            0
                                                        - - 0
- - 0
- - 0
ieee - 0
  Remote SPAN VLANs
  Primary Secondary Type
                                           Ports
  Switch#
```

8. Ping from PC Leo to Pisces:

```
C:\>ping 172.21.1.1 with 32 bytes of data:

Reply from 172.21.1.1: bytes=32 time=18ms TTL=128
Reply from 172.21.1.1: bytes=32 time=18ms TTL=128
Reply from 172.21.1.1: bytes=32 time=18ms TTL=128
Reply from 172.21.1.1: bytes=32 time=10ms TTL=128
Reply from 172.21.1.1: bytes=32 time=10ms TTL=128
Reply from 172.21.1.1: bytes=32 time=10ms TTL=128

Ping statistics for 172.21.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli=seconds:

Minimum = 10ms, Maximum = 22ms, Average = 17ms

C:\>
C:\>
ping 172.21.1.2

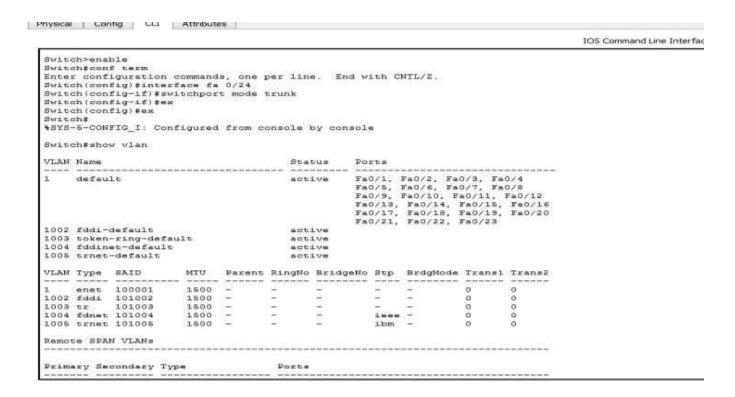
Pinging 172.21.1.2 with 32 bytes of data:

Request timed out.
```

```
Physical Config Desktop Attributes Software/Services
 Command Prompt
 C:\>ping 172.21.2.2
 Pinging 172.21.2.2 with 32 bytes of data:
  Request timed out.
 Request timed out.
Request timed out.
Request timed out.
 Ping statistics for 172.21.2.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
 C:\>ping 172.21.3.1
 Pinging 172.21.3.1 with 32 bytes of data:
 Request timed out.
Request timed out.
Request timed out.
Request timed out.
 Ping statistics for 172.21.3.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss).
 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
       statistics for 172.21.3.2:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
 Ping
 C:\>ping 172.21.1.3
 Pinging 172.21.1.3 with 32 bytes of data:
```

```
Physical Config Desktop Attributes Software/Services
 Command Prompt
  Request timed out.
 Ping statistics for 172.21.1.4:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
 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:\>ping 172.21.2.4
 Pinging 172.21.2.4 with 32 bytes of data:
 Request timed out.
Request timed out.
Request timed out.
Request timed out.
 Ping statistics for 172.21.2.4:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
 C:\>ping 172.21.3.3
 Pinging 172.21.3.3 with 32 bytes of data:
 Request timed out.
Request timed out.
Request timed out.
Request timed out.
 Ping statistics for 172.21.3.3:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

9. Configure VLAN trunking on the switch 2:



10. Change privileged mode:

											IOS Command Line Interf		
Swite	ch>enal	ole											
Swite	chiconi	fterm											
Enter	conf	iguration c	ommand	, one	per line	a. End	with Cl	NTL/Z.					
		fig) #interf											
Switch(config-if)#switchport mode trunk													
		fig-if) #ex											
		fig)#ex											
Swite			S	2	72								
*8Y8-	-6-CON	FIG_I: Conf	igured	from co	onsole 1	oy conso.	Le						
Swite	ch#shot	w vlan											
	DAY-WAR				Stat		Ports						
	i default active							Fa0/2. Fa					
-	Gerenro				a C 0.			Fa0/6, Fa					
								Fa0/10, F					
								Fa0/14.					
								Fa0/18,					
						F.	a0/21,	Fa0/22,	Fa0/23				
1002 fddi-default active													
1003 token-ring-default active													
1004 fddinet-default activ 1005 trnet-default activ													
Tons	Crnec-	-deraurc			acr.	E.V.							
	Type	SAID	MIU	Parent	RingNo	BridgeN	o Stp	BrdgMode	Trans1	Transz			
7777		100001	1500	GEORGE T	200000	2000000	4 4444		0	0			
1002		101002			- 5	2		2	0	0			
	tx				-	2	-	_	0	0			
			1500		_	_	1000	-	0	0			
1005	trnet	101005	1500	-	-	20	1.lom	_	0	0			
Remot	e SPAN	N VLANS											
		condary Typ			Ports								
	LEV Dec	condary Type	-		POETS								

- 11. In Configures mode, configure switch ports into zodiac1, zodiac2, and zodiac3 VLANs with the following members:
 - Zodiak1 = aquarius and Gemini
 - Zosiak2 = cancer and sagitarius
 - Zodiak3 = capricornus and pisces

```
PHYSICA L CORNEY --- AMERICA
                                                                                                                              IOS Command Line Interface
  Switchfoonf term
   Enter configuration commands, one per line. End with CNTL/Z.
   Switch (config) sint fa 0/1
   Switch (config-if) *ex
   Switch (config) fex
   *878-5-CONFIG_I) Configured from console by console
   Switchfoonf term
   Enter configuration commands, one per line. End with CWIL/E.
Switch(config) #vlen 10
   Switch(config-vien)#namm sodiak)
Switch(config-vien)#em
   Switch (config) #vlan 50.
   Switch (config-vlan) thame sodiak?
   Switch (config-vlan) fex
   Switch (config) #wlan 50
   Switch(config-vlam)@name rodiakd
Switch(config-vlam)@nam
Switch(config-plam) fam
Switch(config)@int fa D/1
   Switch (config-if) few mode access
Switch (config-if) few access vlan 10
   Switch (config-if) fint fa 0/4
   Switch(config-1f) #sw mode access
Switch(config-1f) #sw access vlan 10
   Switch(config-lf)@int fs 0/2
   Switch (config-if) and mode access
Switch (config-if) and access vian 20
   Switch(config-if) first fa 0/2
Switch(config-if) few mode access
   Switch (config-if) fav access vlan 30
   Switch(config-if)@int Se 0/5
Switch(config-if)@sw mode access
Switch(config-if)@sw access vian 20
Switch(config-if)@sw mode access
   Switch (config-if) few access vlan 30
   Switch (config-if) tend
```

12.Ping from PC Leo to PC Aries, PC Leo to PC Aquarius, PC Leo to PC Pisces, PC Libra to PC Cancer, and PC Libra to PC Leo

```
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:

Reply from 172.21.1.3: bytes=32 time=1ms TTL=128
Reply from 172.21.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 172.21.1.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

```
Pinging 172.21.2.3 with 32 bytes of data:

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:\>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),
```

```
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:\>
```