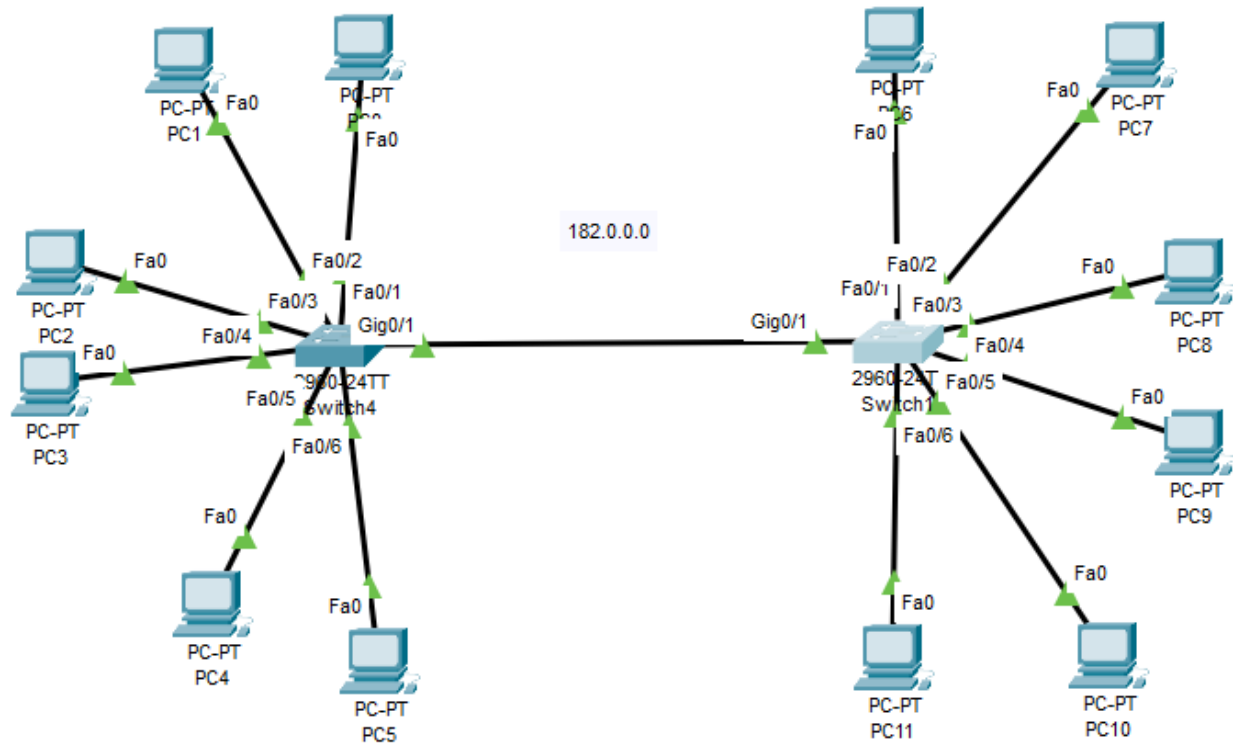


Name : Zunaisha Noor

Roll no : Biet-f21-049

Course DCCN

Task:



Subnetting:

182.0.0.0

320 Host

Host:

$2^9 = 128$

Subnet Mask:

255.255.254.0

Table:

Network-ID	Sub-net Range	BroadCast Bit	Usable Host
182.0.0.0	182.0.0.0 - 182.0.1.254	182.0.1.255	510
182.0.2.0	182.0.2.0 - 182.0.2.254	182.0.3.255	510
182.0.4.0	182.0.4.0 - 182.0.4.254	182.0.5.255	510
-	-	-	-
182.0.252.0	182.0.252.0 - 182.0.252.254	182.0.253.255	510

Switch4

Physical Config **CLI** Attributes

IOS Command Line Interface

```

Switch>enable
Switch#vlan 2
^
% Invalid input detected at '^' marker.

Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 2
Switch(config-vlan)#name Student
Switch(config-vlan)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

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 Gig0/1, Gig0/2
2	Student	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	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
2	enet	100002	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0
1003	tr	101003	1500	-	-	-	-	-	0	0

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Switch4

Physical Config **CLI** Attributes

IOS Command Line Interface

```

Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 3
Switch(config-vlan)#name Faculty
Switch(config-vlan)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#vlan 3
^
% Invalid input detected at '^' marker.

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 Gig0/1, Gig0/2
2	Student	active	
3	Faculty	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	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
2	enet	100002	1500	-	-	-	-	-	0	0
3	enet	100003	1500	-	-	-	-	-	0	0

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Switch4

Physical Config **CLI** Attributes

IOS Command Line Interface

Remote SPAN VLANs

```

Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#vlan 4
Switch(config-vlan)#name Administration
Switch(config-vlan)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console
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 Gig0/1, Gig0/2
2	Student	active	
3	Faculty	active	
4	Administration	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	Trans1	Trans2
1	enet	1000001	1500	-	-	-	-	-	0	0
2	enet	1000002	1500	-	-	-	-	-	0	0

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☐ Top

Switch4

Physical Config **CLI** Attributes

IOS Command Line Interface

```

Switch#
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface Gig0/1
Switch(config-if)#interface range Gig0/1-8
interface range not validated - command rejected
Switch(config)#interface range Fa0/1-8
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switch port access vlan 2
Switch#
% Invalid input detected at '^' marker.

Switch(config-if-range)#switchport access vlan 2
Switch(config-if-range)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#show vlan

```

VLAN	Name	Status	Ports
1	default	active	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 Gig0/1, Gig0/2
2	Student	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8
3	Faculty	active	
4	Administration	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	Trans1	Trans2
1	enet	1000001	1500	-	-	-	-	-	0	0
2	enet	1000002	1500	-	-	-	-	-	0	0

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Switch4

Physical Config CLI Attributes

IOS Command Line Interface

```

Primary Secondary Type          Ports
-----
Switch#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#interface range Fa0/9-16
Switch(config-if-range)#switchport mode access vlan 3
^
% Invalid input detected at '^' marker.

Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 3
Switch(config-if-range)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console
show vlan

```

VLAN	Name	Status	Ports
1	default	active	Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24 Gig0/1, Gig0/2
2	Student	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8
3	Faculty	active	Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16
4	Administration	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	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
2	enet	100002	1500	-	-	-	-	-	0	0

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Switch4

Physical Config CLI Attributes

IOS Command Line Interface

```

Remote SPAN VLANs
-----
Primary Secondary Type          Ports
-----
Switch#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#interface range Fa0/17-24
Switch(config-if-range)#switchport mode access
Switch(config-if-range)#switchport access vlan 4
Switch(config-if-range)#end
Switch#
%SYS-5-CONFIG_I: Configured from console by console
show vlan

```

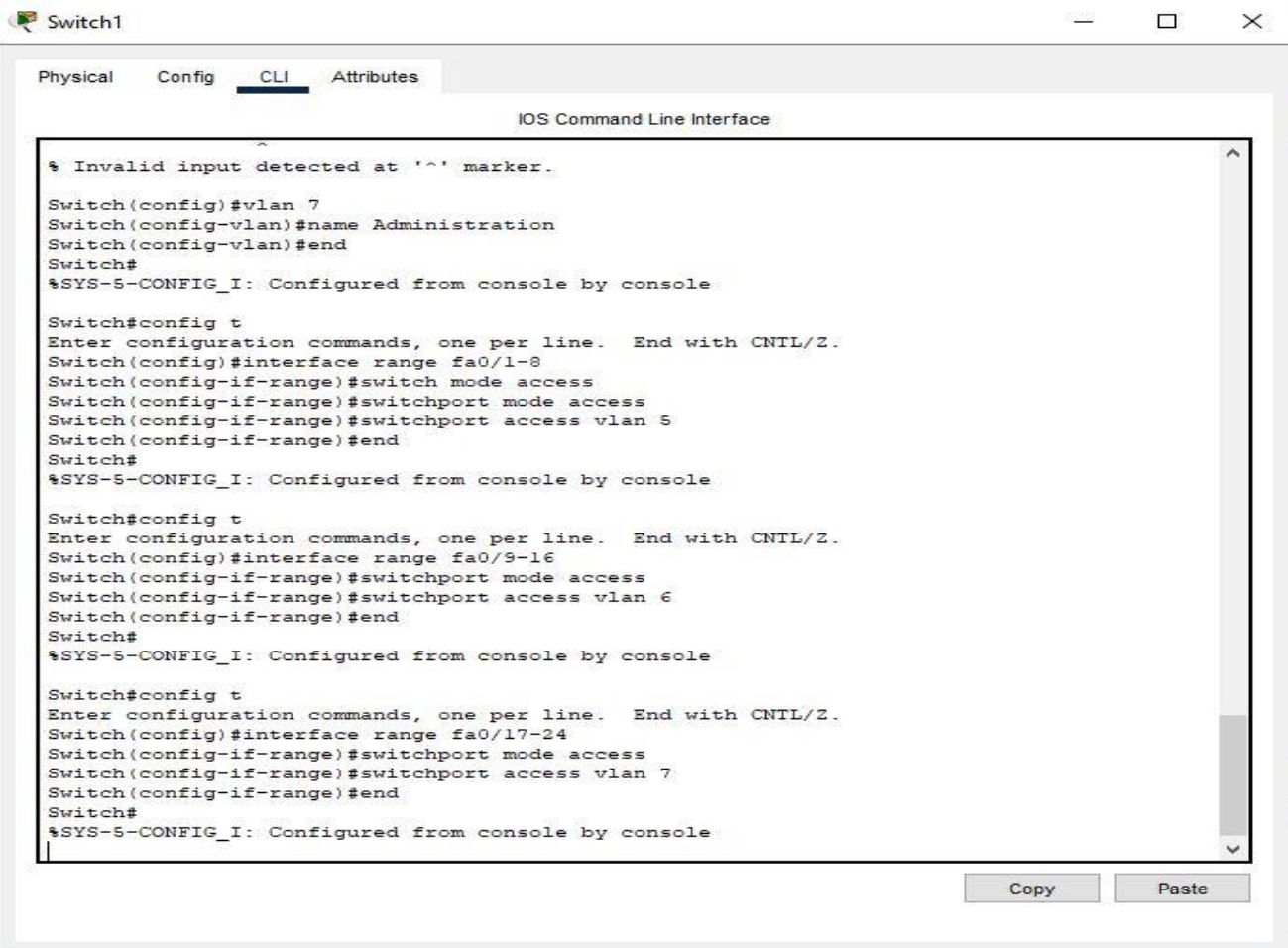
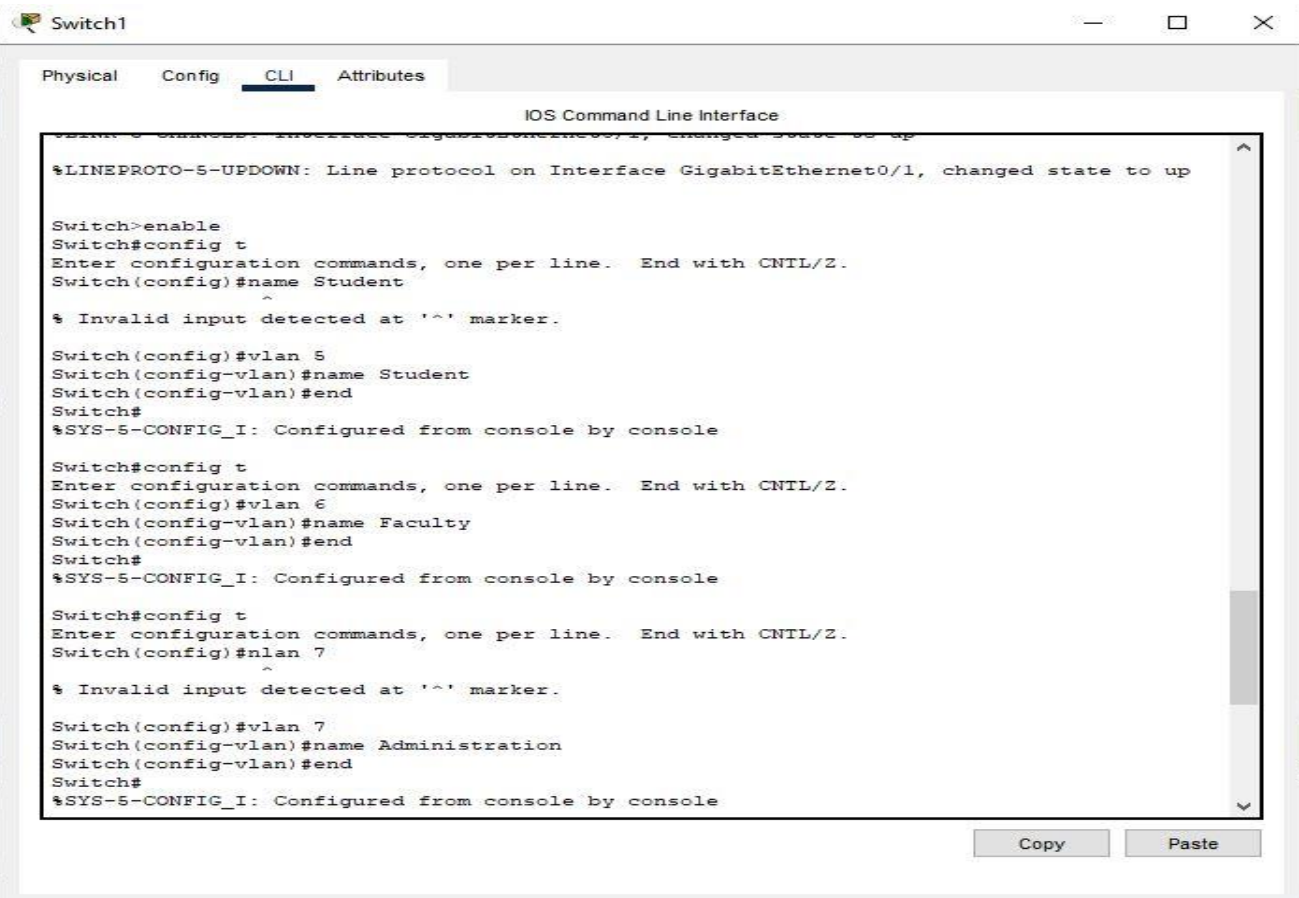
VLAN	Name	Status	Ports
1	default	active	Gig0/1, Gig0/2
2	Student	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8
3	Faculty	active	Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16
4	Administration	active	Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

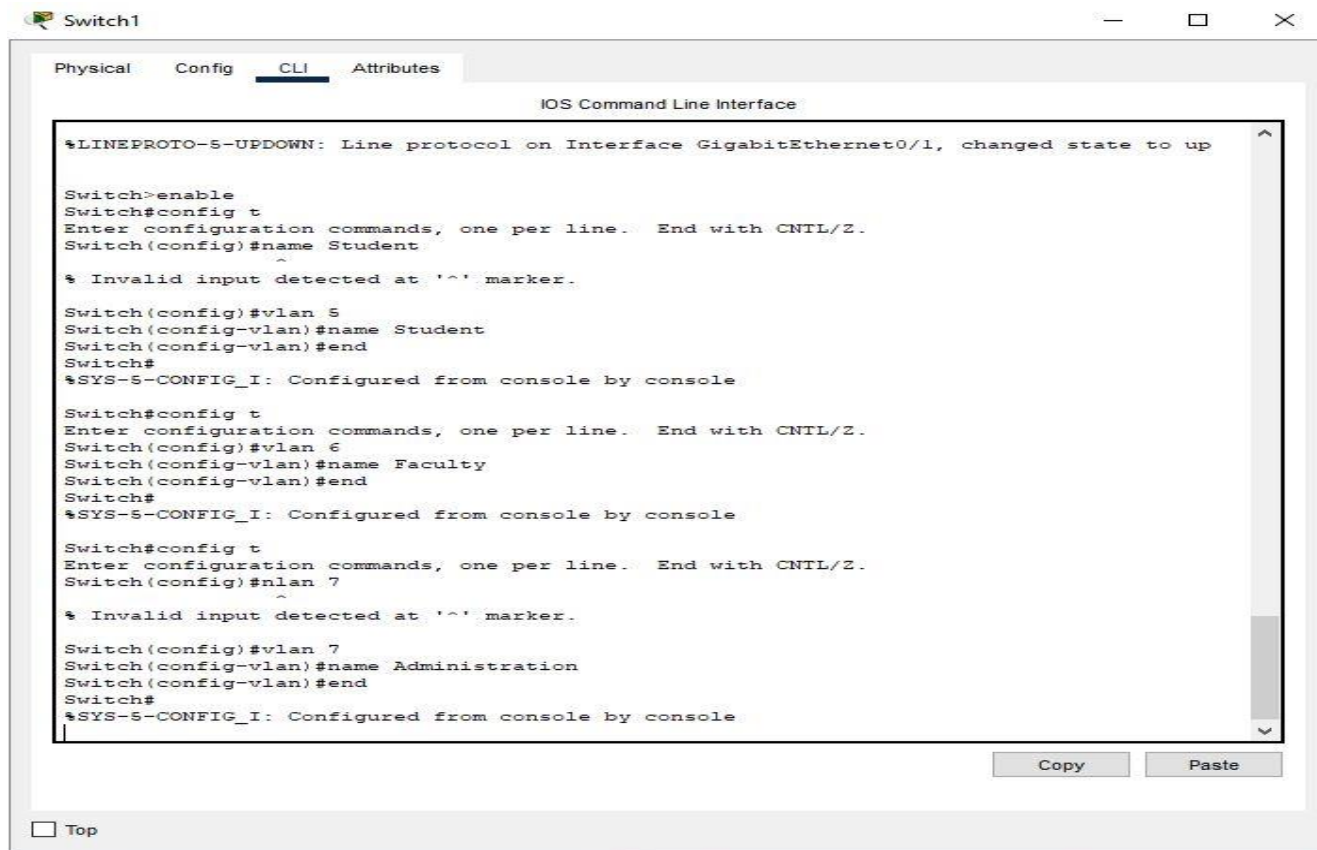
VLAN	Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Trans1	Trans2
1	enet	100001	1500	-	-	-	-	-	0	0
2	enet	100002	1500	-	-	-	-	-	0	0
3	enet	100003	1500	-	-	-	-	-	0	0
4	enet	100004	1500	-	-	-	-	-	0	0
1002	fddi	101002	1500	-	-	-	-	-	0	0

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## Trunk:

