

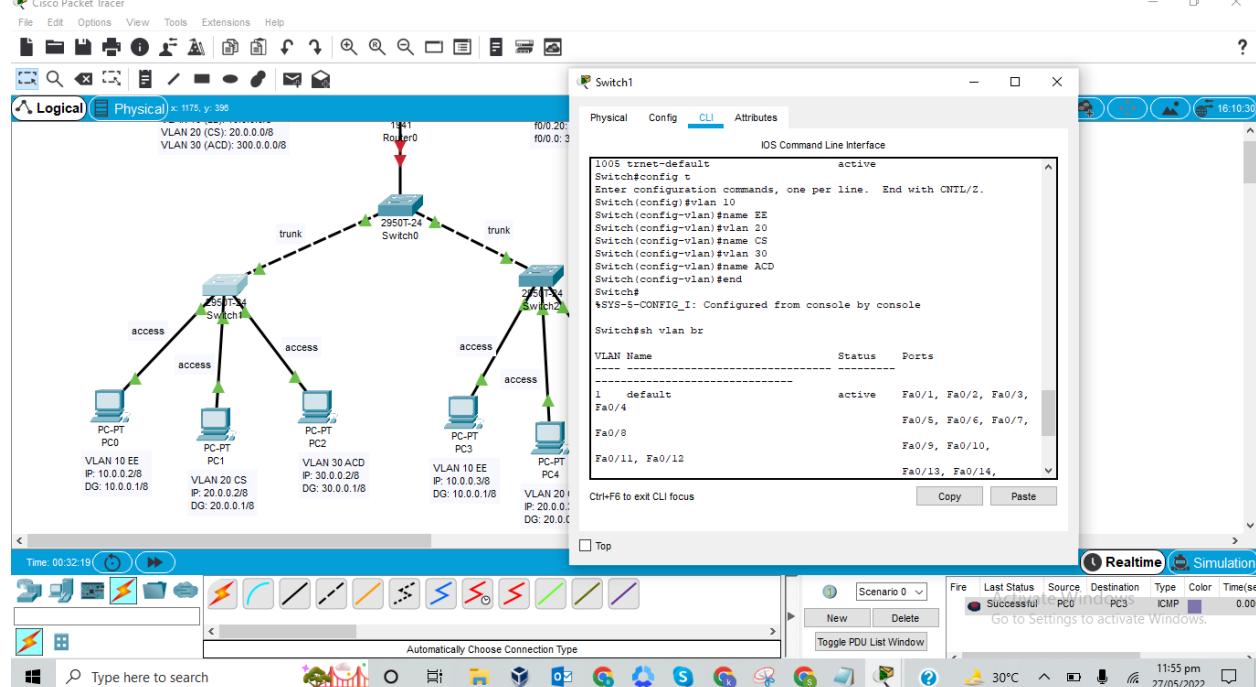
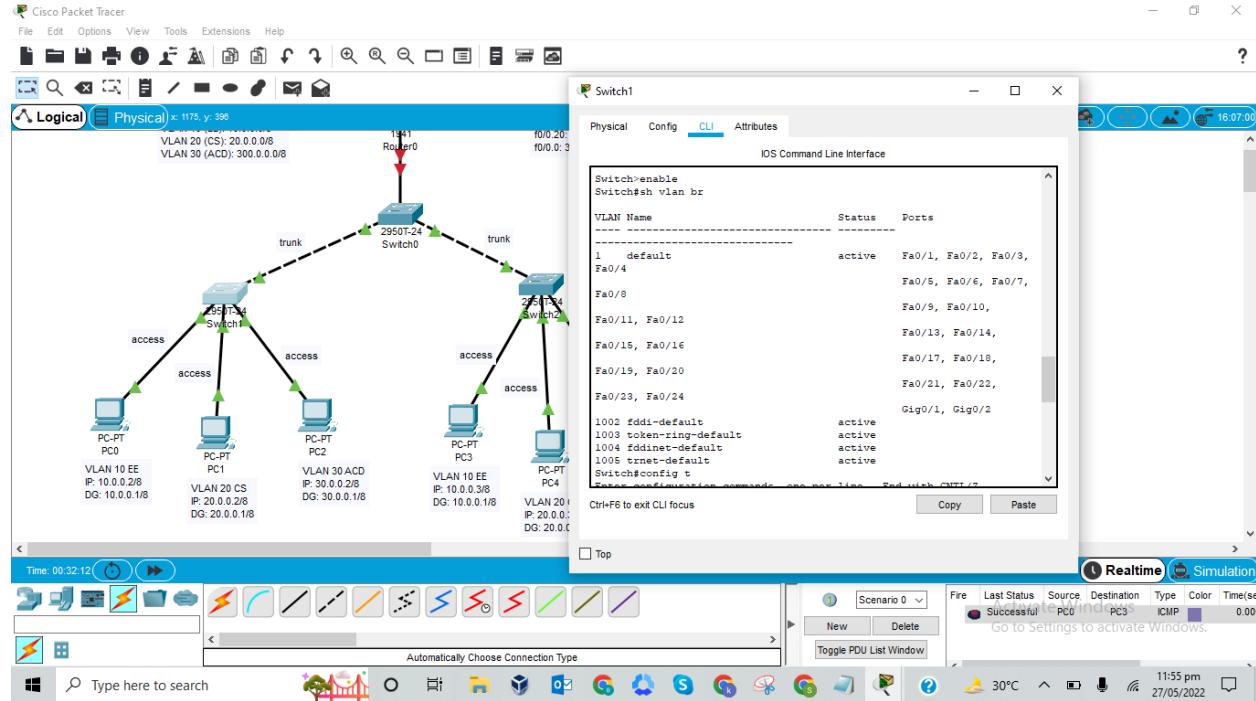
# CN LAB#11

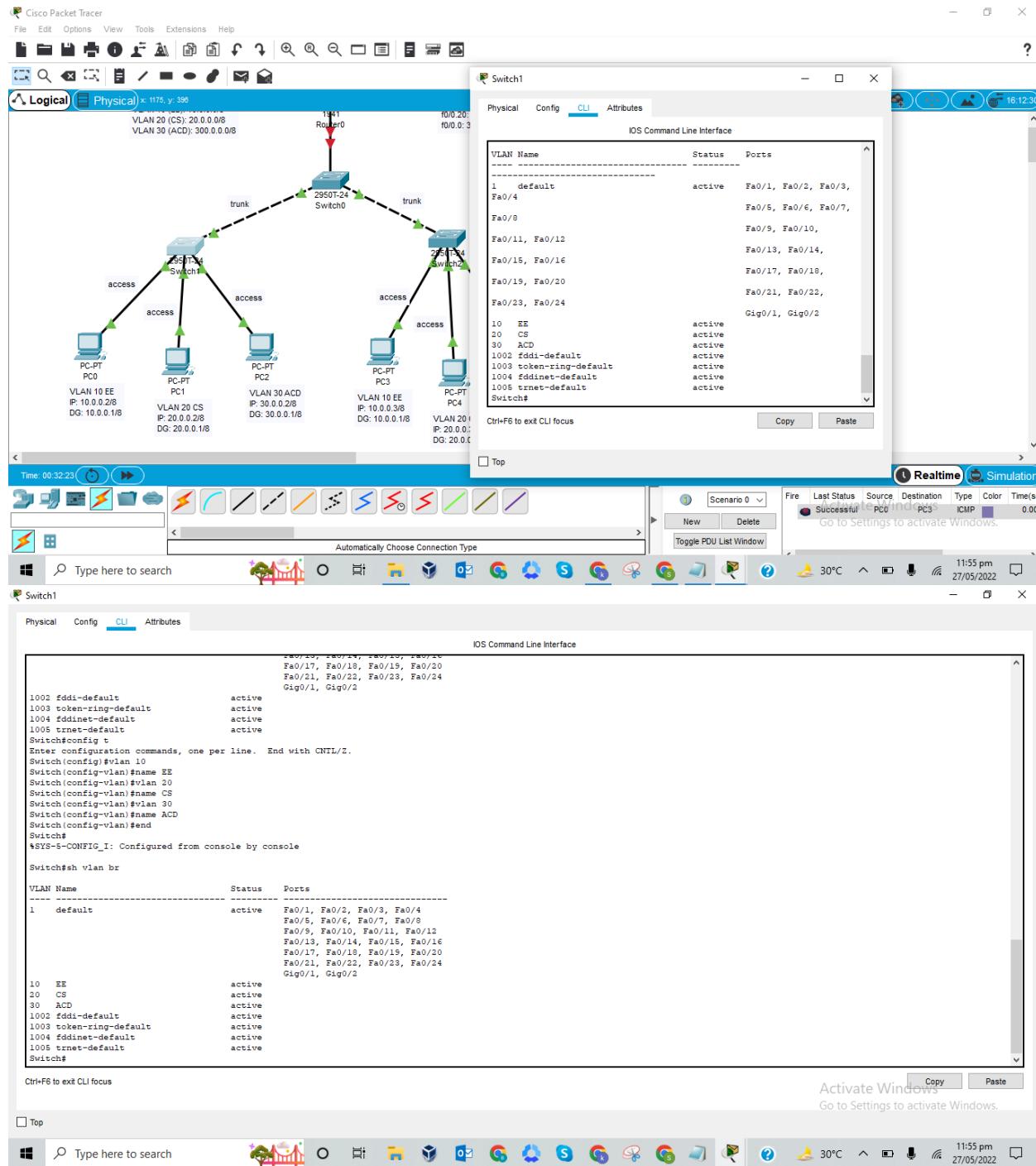
Name: Saman Khan

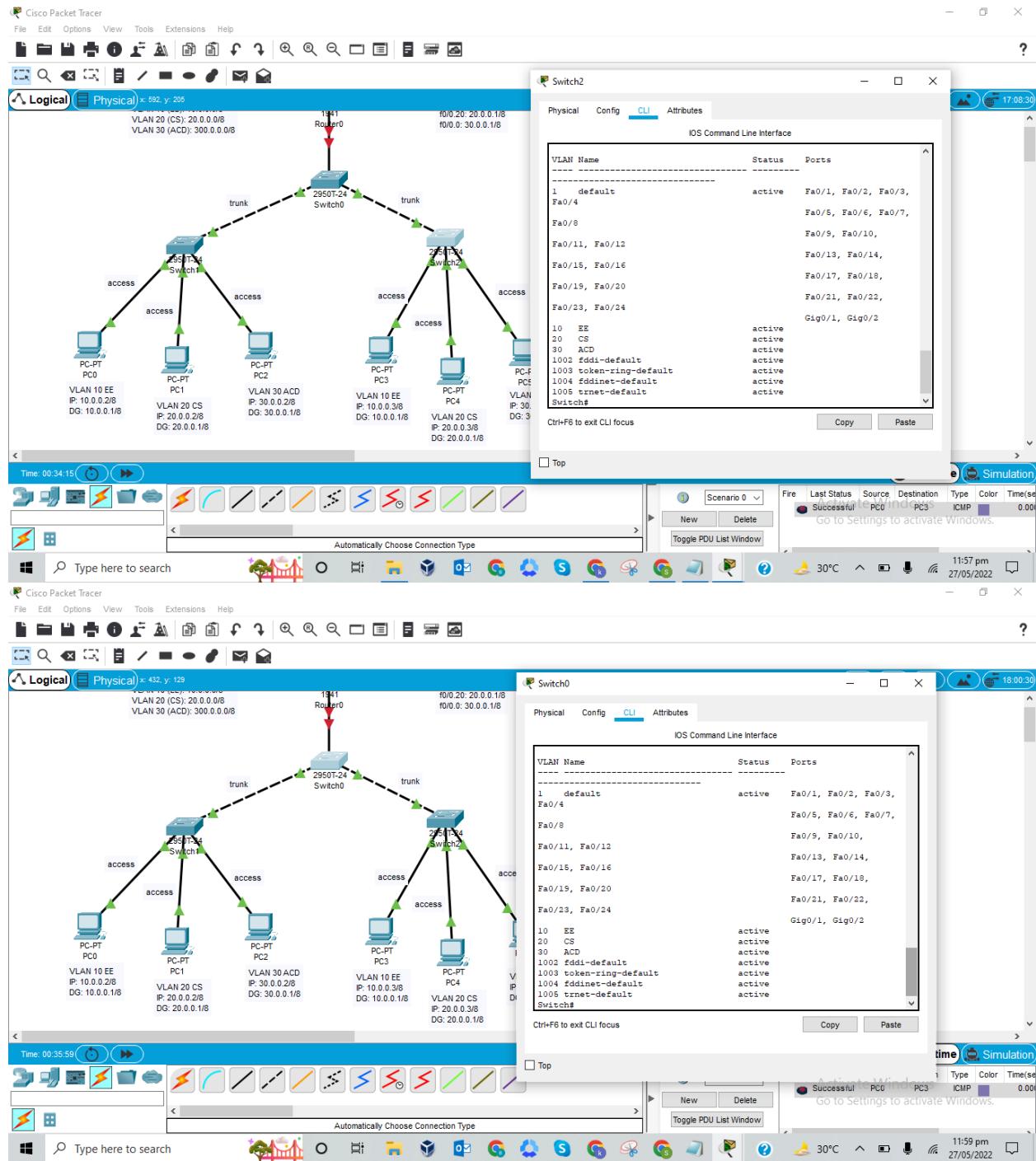
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Section: H

## Question#01:







Switch1

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Gig0/1, Gig0/2
10  EE          active
20  CS          active
30  ACD         active
1002 fddi-default      active
1003 token-ring-default active
1004 fddinet-default   active
1005 tnet-default     active
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/1
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/2
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/3
Switch(config-if)#switchport access vlan 30
Switch(config-if)#end
Switch#
SYS-5-CONFIG_I: Configured from console by console

Switch#sh vlan br

VLAN Name          Status    Ports
-----+-----+-----+
1   default        active    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
10  EE            active    Fa0/1
20  CS            active    Fa0/2
30  ACD           active    Fa0/3
1002 fddi-default      active
1003 token-ring-default active
1004 fddinet-default   active
1005 tnet-default     active
Switch#
Ctrl+F6 to exit CLI focus
```

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Switch2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Gig0/1, Gig0/2
10  EE          active
20  CS          active
30  ACD         active
1002 fddi-default      active
1003 token-ring-default active
1004 fddinet-default   active
1005 tnet-default     active
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/1
Switch(config-if)#switchport access vlan 10
Switch(config-if)#int fa0/2
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/3
Switch(config-if)#switchport access vlan 30
Switch(config-if)#end
Switch#
SYS-5-CONFIG_I: Configured from console by console

Switch#sh vlan br

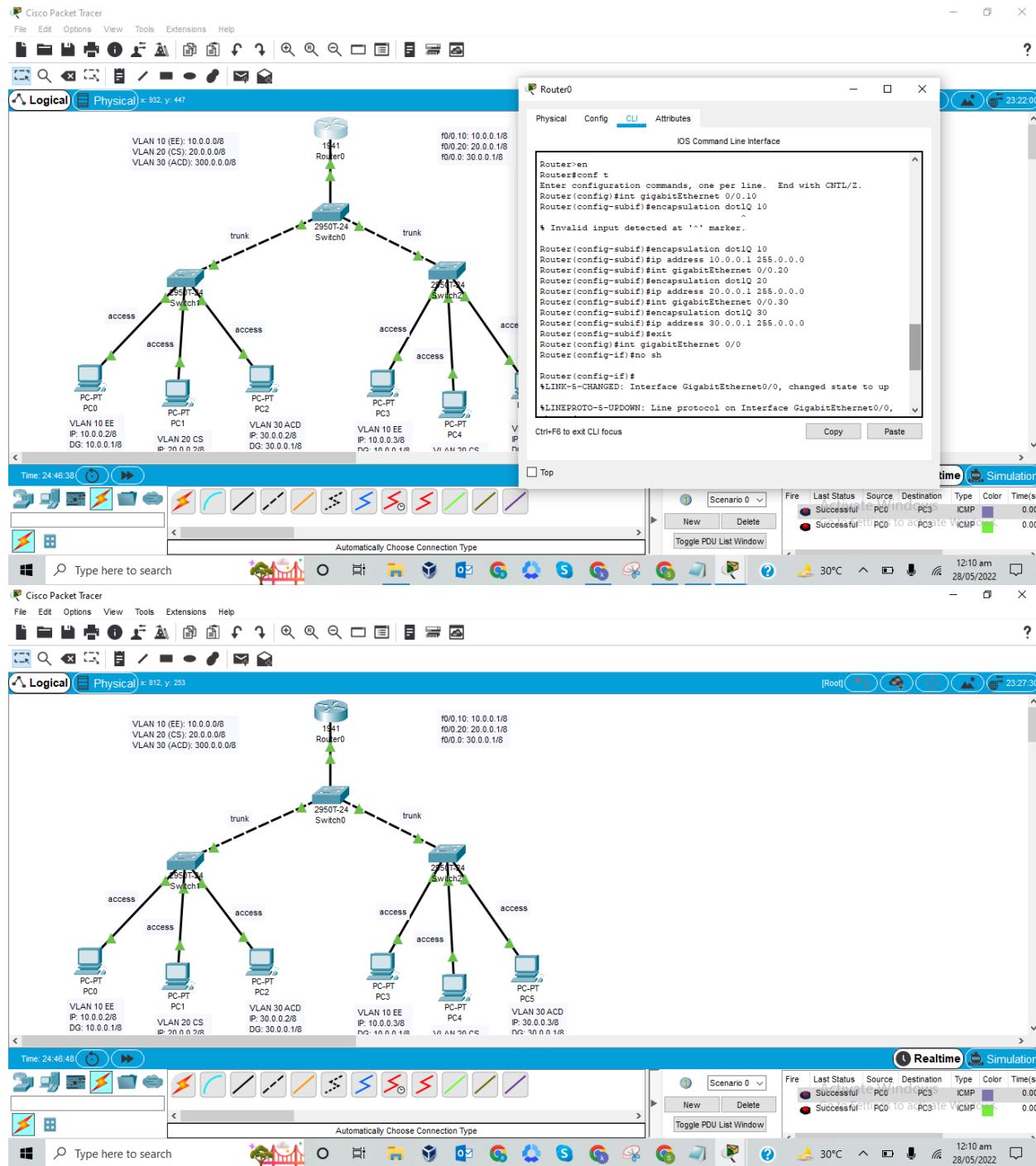
VLAN Name          Status    Ports
-----+-----+-----+
1   default        active    Fa0/4, Fa0/5, Fa0/6, Fa0/7,
                           Fa0/8, Fa0/9, Fa0/10, Fa0/11
                           Fa0/12, Fa0/13, Fa0/14, Fa0/15
                           Fa0/16, Fa0/17, Fa0/18, Fa0/19
                           Fa0/20, Fa0/21, Fa0/22, Fa0/23
                           Fa0/24, Gig0/1, Gig0/2
10  EE            active    Fa0/1
20  CS            active    Fa0/2
30  ACD           active    Fa0/3
1002 fddi-default      active
1003 token-ring-default active
1004 fddinet-default   active
1005 tnet-default     active
Switch#
Ctrl+F6 to exit CLI focus
```

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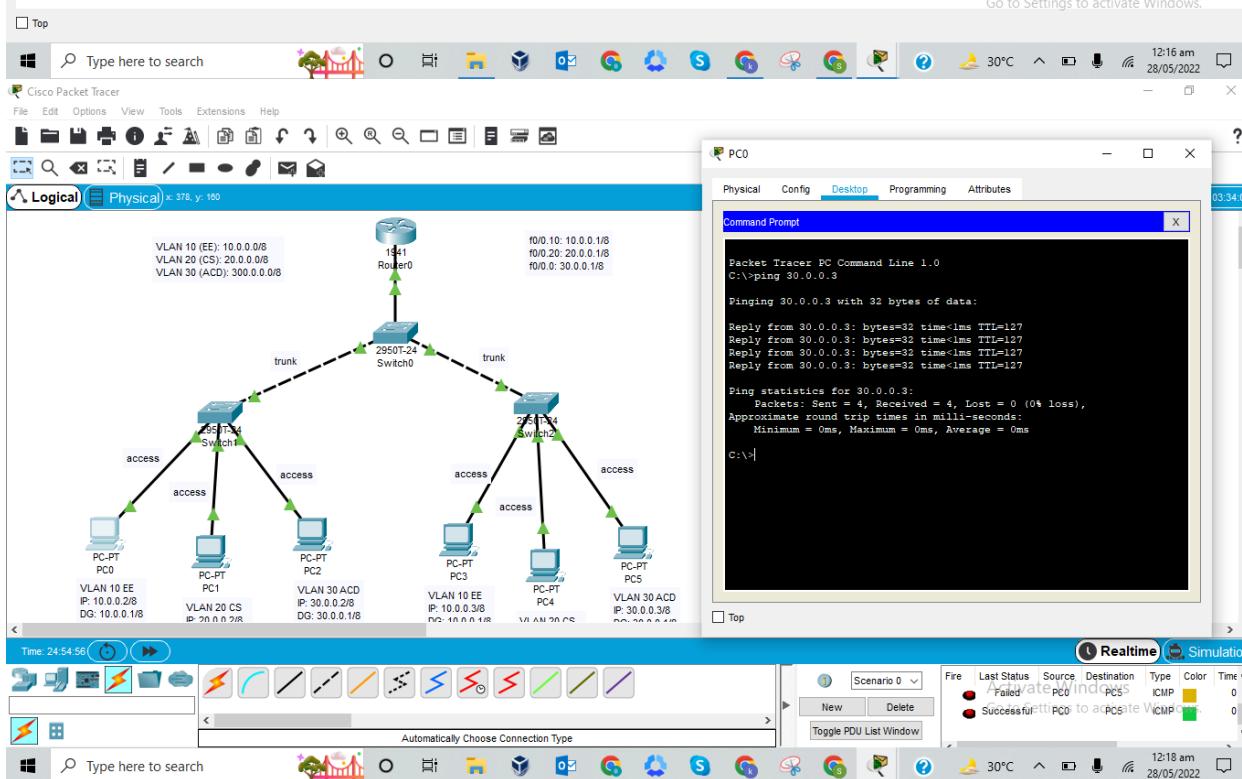
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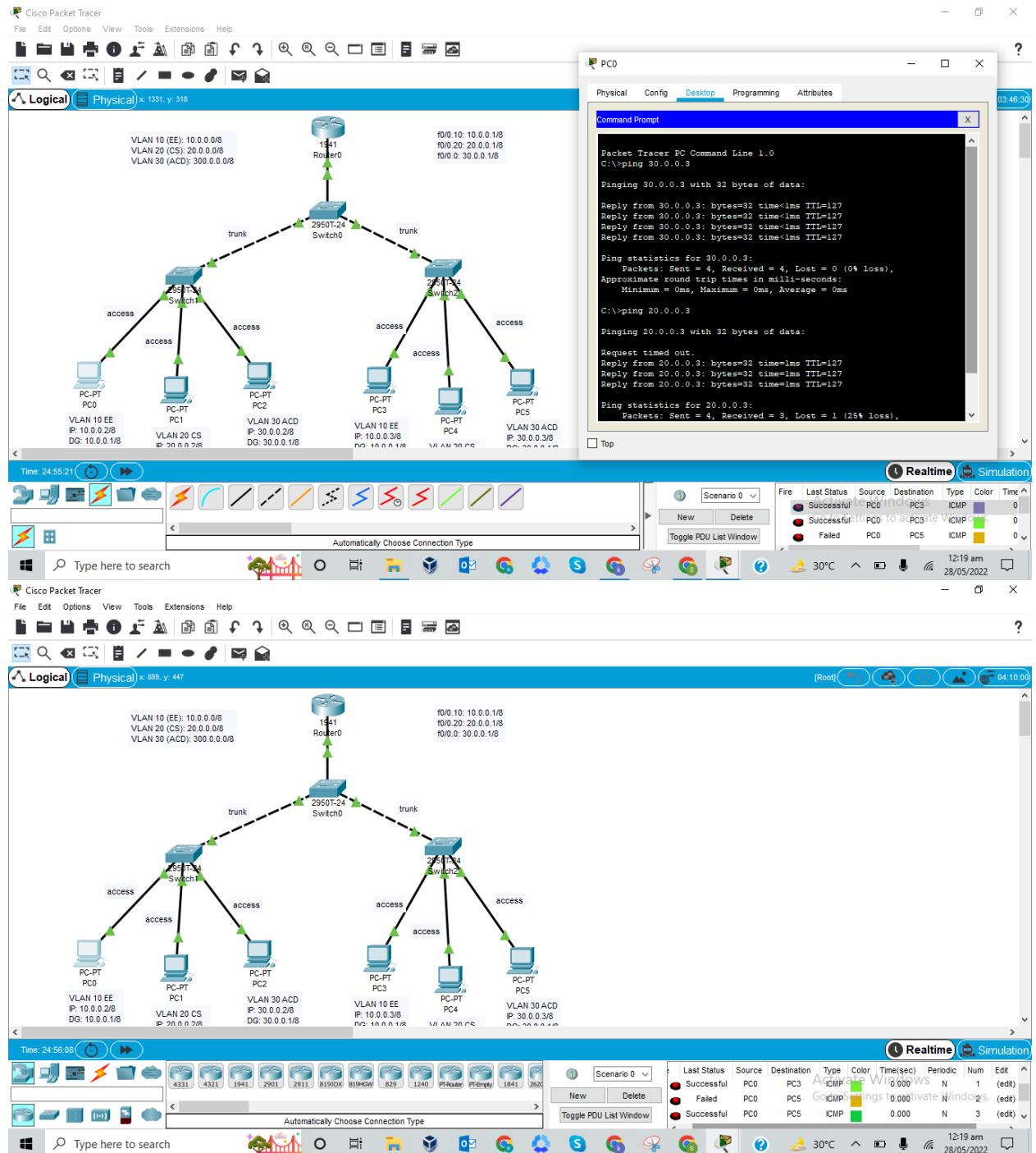


Switch>en  
Switch#conf t  
Enter configuration commands, one per line. End with CNTL/Z.  
Switch(config)#int range gi  
Switch(config)#int range gigabitEthernet  
Switch(config)#int range gigabitEthernet 0/1-2  
Switch(config-if-range)#switchport mode trunk

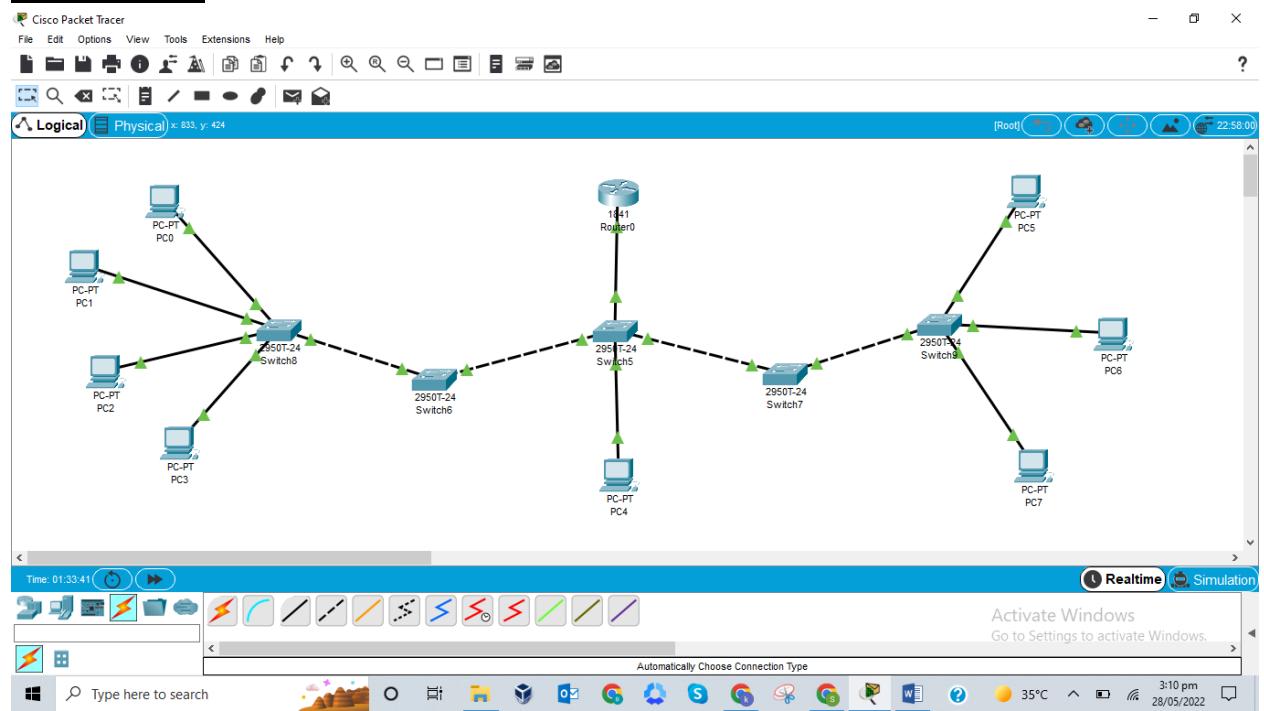
Switch(config-if-range)#  
\$LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down  
\$LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up  
\$LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to down  
\$LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up  
Switch(config-if-range)#exit  
Switch(config)#int fa0/1  
Switch(config-if)#switchport mode trunk

Switch(config-if)#  
\$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down  
\$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up  
Switch(config-if)[\$]





## **Question#02:**



Router>enable

Router#config

Router(config)#

Router(config)#line configuration commands, one per line. End with CNTL/Z.

Router(config)#int fa0/4

\*Invalid interface type and number

Router(config)#int fa0/0

Router(config-if)#no ip address

Router(config-if)#no sh

Router(config-if)#

\*LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

\*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#int fa0/0.1

Router(config-subif)#

\*LINK-5-CHANGED: Interface FastEthernet0/0.1, changed state to up

\*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.1, changed state to up

Router(config-subif)#encapsulation dot1Q 1

Router(config-subif)#ip address 03.54.1.1 255.255.255.0

\* Incomplete command.

Router(config-subif)#ip address 03.54.1.1 255.255.255.0

Router(config-subif)#int fa0/0.2

Router(config-subif)#

\*LINK-5-CHANGED: Interface FastEthernet0/0.2, changed state to up

\*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.2, changed state to up

Router(config-subif)#encapsulation dot1Q 2

Router(config-subif)#ip address 03.54.2.1 255.255.255.0

Router(config-subif)#int fa0/0.3

Router(config-subif)#

\*LINK-5-CHANGED: Interface FastEthernet0/0.3, changed state to up

\*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.3, changed state to up

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Router>enable

Router#config

Router(config)#

\*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.3, changed state to up

Router(config-subif)#encapsulation dot1Q 3

Router(config-subif)#ip address 03.54.3.1 255.255.255.0

Router(config-subif)#int fa0/0.4

Router(config-subif)#

\*LINK-5-CHANGED: Interface FastEthernet0/0.4, changed state to up

\*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.4, changed state to up

Router(config-subif)#encapsulation dot1Q 4

Router(config-subif)#ip address 03.54.4.1 255.255.255.0

Router(config-subif)#int fa0/0.5

Router(config-subif)#

\*LINK-5-CHANGED: Interface FastEthernet0/0.5, changed state to up

\*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.5, changed state to up

Router(config-subif)#encapsulation dot1Q 5

Router(config-subif)#ip address 03.54.5.1 255.255.255.0

Router(config-subif)#

Router(config-subif)#ip dhcp excluded-address 03.54.1.1

Router(config-subif)#ip dhcp excluded-address 03.54.2.1

Router(config-subif)#ip dhcp excluded-address 03.54.3.1

Router(config-subif)#ip dhcp excluded-address 03.54.4.1

Router(config-subif)#ip dhcp excluded-address 03.54.5.1

Router(config)#

Router(config)#ip dhcp pool DHCP-VLAN1

Router(dhcp-config)#network 03.54.1.0 255.255.255.0

Router(dhcp-config)#default-router 03.54.1.1

Router(dhcp-config)#exit

Router(config)#ip dhcp pool DHCP-VLAN2

Router(dhcp-config)#network 03.54.2.0 255.255.255.0

Router(dhcp-config)#default-router 03.54.2.1

Router(dhcp-config)#exit

Router(config)#ip dhcp pool DHCP-VLAN3

Router(dhcp-config)#network 03.54.3.0 255.255.255.0

Router(dhcp-config)#default-router 03.54.3.1

Ctrl+F6 to exit CLI focus

Activate Window

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Go to Settings to activate Windows.

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Windows Start button

Icons: File Explorer, OneDrive, Mail, Photos, Google Chrome, Microsoft Edge, S, File, Task View, Power User, Help & Support, Weather, Date & Time, Network, Battery, Volume, Taskbar settings

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28/05/2022

Router0

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router(config-subif)#encapsulation dot1Q 4
Router(config-subif)#ip address 03.54.4.1 255.255.255.0
Router(config-subif)#int fa0/0.5
Router(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.5, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.5, changed state to up

Router(config-subif)#encapsulation dot1Q 5
Router(config-subif)#ip address 03.54.5.1 255.255.255.0
Router(config-subif)#
Router(config-subif)#ip dhcp excluded-address 03.54.1.1
Router(config-subif)#ip dhcp excluded-address 03.54.2.1
Router(config-subif)#ip dhcp excluded-address 03.54.3.1
Router(config)#ip dhcp excluded-address 03.54.4.1
Router(config)#ip dhcp excluded-address 03.54.5.1
Router(config)#
Router(config)#ip dhcp pool DHCP-VLAN1
Router(dhcp-config)#network 03.54.1.0 255.255.255.0
Router(dhcp-config)#default-router 03.54.1.1
Router(dhcp-config)#exit
Router(config)#ip dhcp pool DHCP-VLAN2
Router(dhcp-config)#network 03.54.2.0 255.255.255.0
Router(dhcp-config)#default-router 03.54.2.1
Router(dhcp-config)#exit
Router(config)#ip dhcp pool DHCP-VLAN3
Router(dhcp-config)#network 03.54.3.0 255.255.255.0
Router(dhcp-config)#default-router 03.54.3.1
Router(dhcp-config)#exit
Router(config)#ip dhcp pool DHCP-VLAN4
Router(dhcp-config)#network 03.54.4.0 255.255.255.0
Router(dhcp-config)#default-router 03.54.4.1
Router(dhcp-config)#exit
Router(config)#ip dhcp pool DHCP-VLAN5
Router(dhcp-config)#network 03.54.5.0 255.255.255.0
Router(dhcp-config)#default-router 03.54.5.1
Router(dhcp-config)#

```

Ctrl+F6 to exit CLI focus

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Switch5

Physical    Config    CLI    Attributes

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Physical Config **CLI** Attributes

IOS Command Line Interface

```
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up

Switch#en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/4
Switch(config-if)#switchport mode trunk

Switch(config-if)#
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to down

*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up

Switch(config-if)#exit
Switch(config)#vlan 1
Switch(config-vlan)#name VLAN-1
Default VLAN 1 may not have its name changed.
Switch(config-vlan)#vlan 2
Switch(config-vlan)#name VLAN-2
Switch(config-vlan)#vlan 3
Switch(config-vlan)#name VLAN-3
Switch(config-vlan)#vlan 4
Switch(config-vlan)#name VLAN-4
Switch(config-vlan)#vlan 5
Switch(config-vlan)#name VLAN-5
Switch(config-vlan)#exit
Switch(config)#int fa0/1
Switch(config-if)#switchport access vlan 1
Switch(config-if)#exit
Switch(config)#int fa0/2-3
^
% Invalid input detected at '^' marker.

Switch(config)#int range fa0/2-3
Switch(config-if-range)#switch mode trunk
```

Ctrl+F6 to exit CLI focus

Activate Windows

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