

Date: 30/08/2023

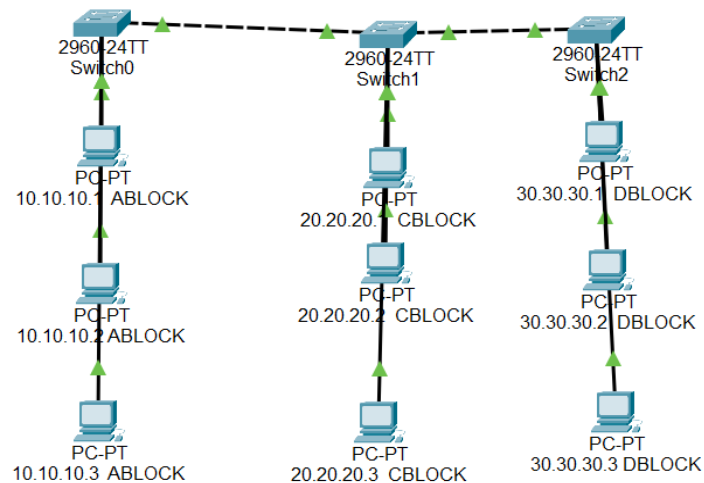
### Lab Practical #06:

Study the concept of VLAN using packet tracer.

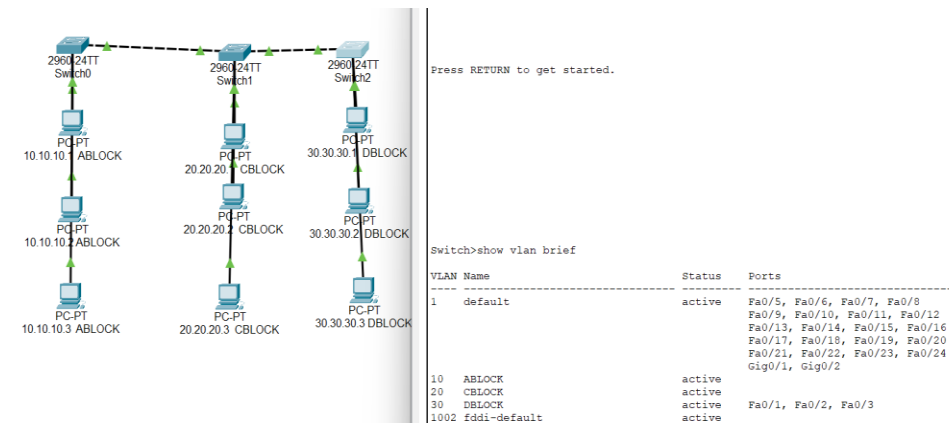
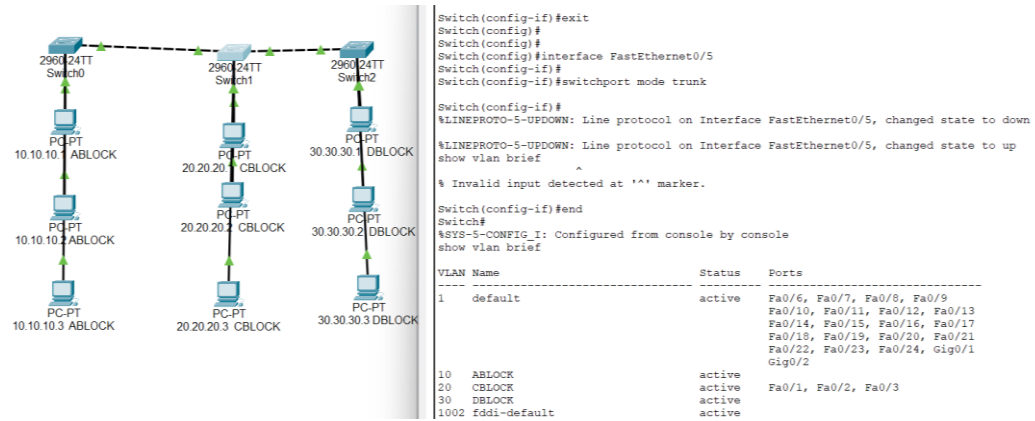
### Practical Assignment #06:

1. Implement the different network structures in VLAN and VLAN trunking. Also check connectivity between them using ping command or PDU utility.

Diagram 1:

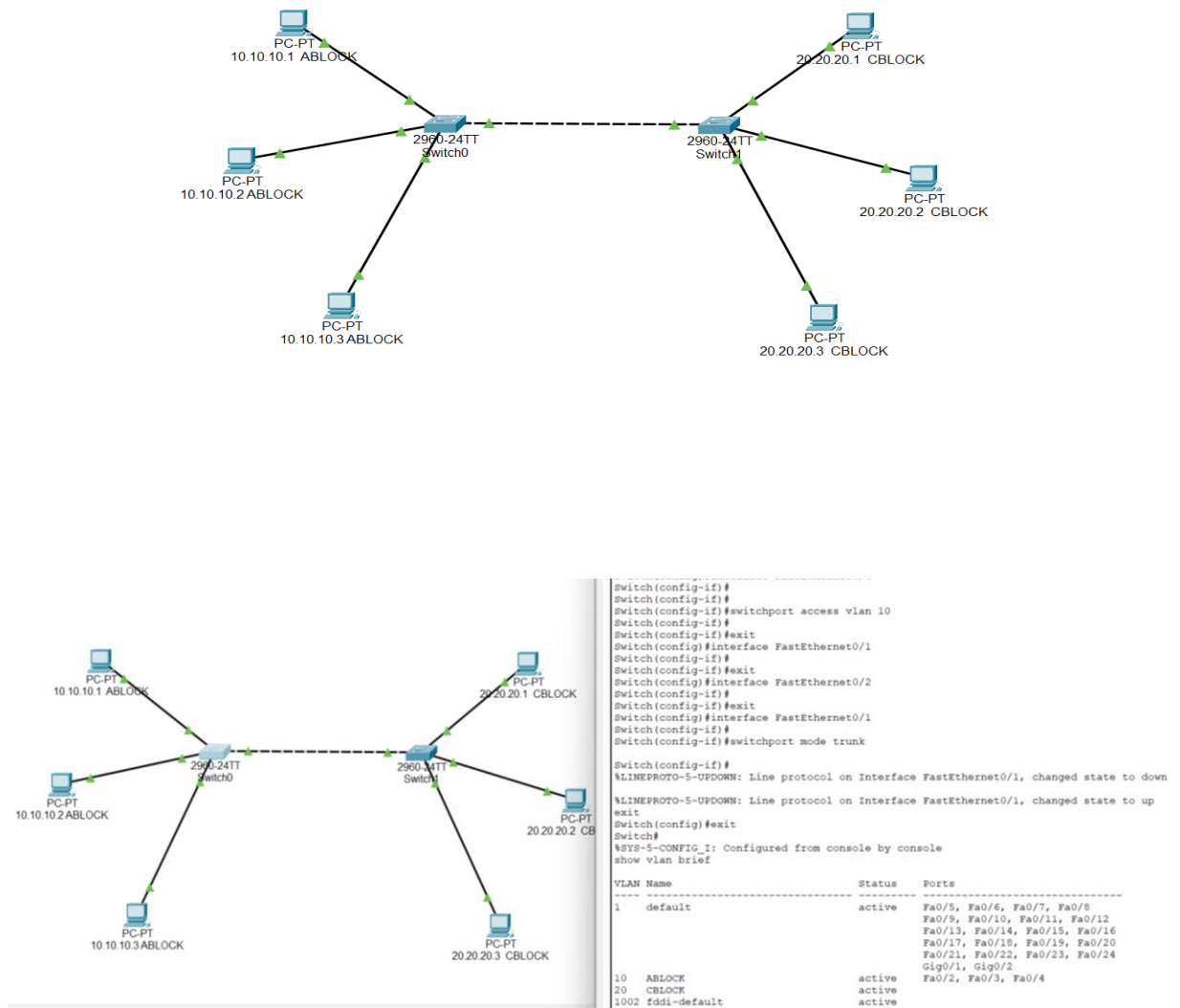


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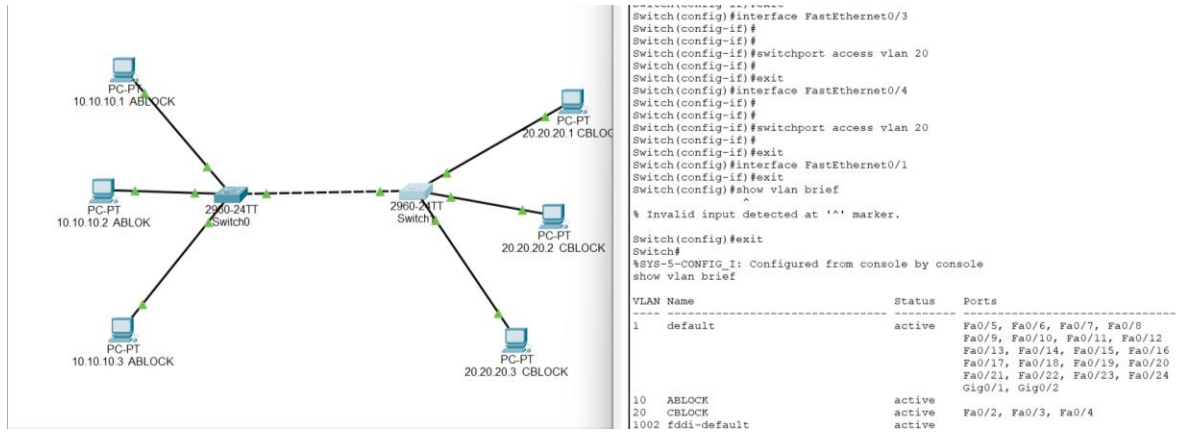


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**Diagram 2 :**

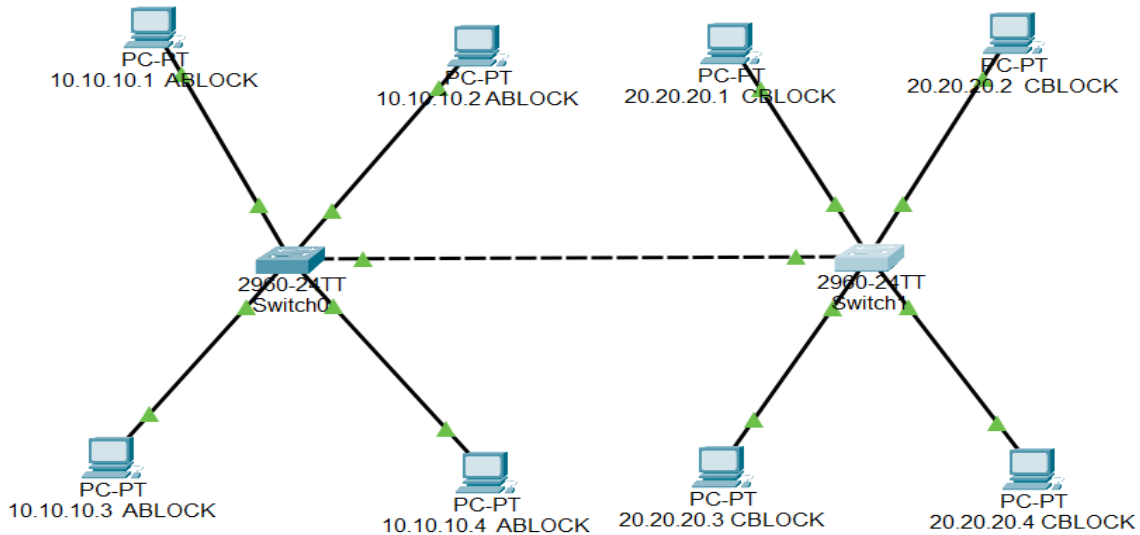


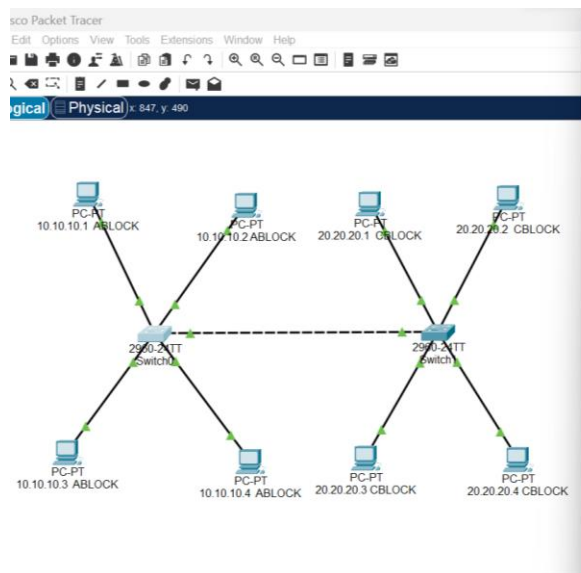
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**Diagram 3 :**





**Switch0**

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Switch(config-if)#
Switch(config-if)#switchport access vlan 10
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/3
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/2
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#interface FastEthernet0/1
Switch(config-if)#
Switch(config-if)#switchport mode trunk

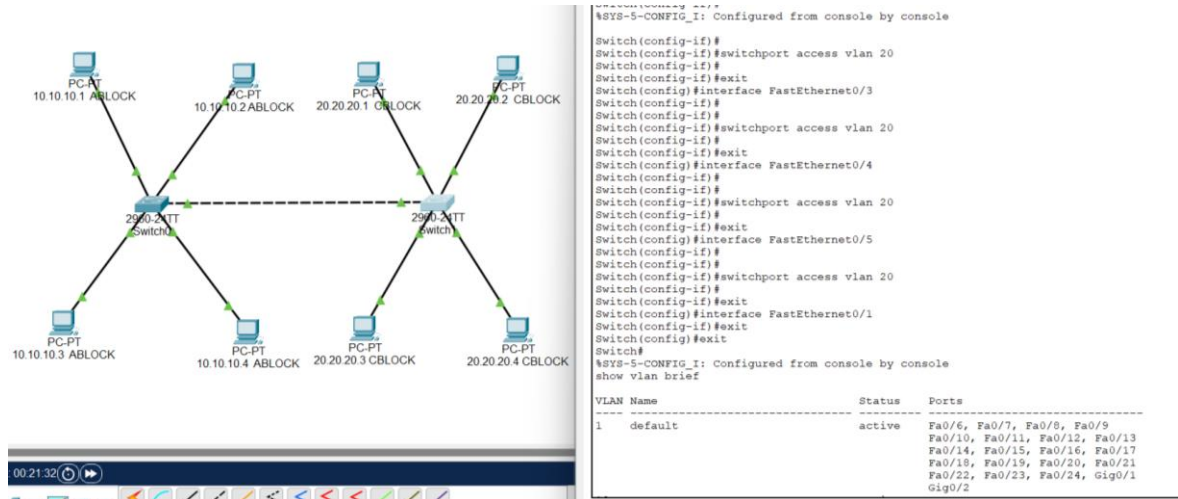
Switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
show vlan brief

% Invalid input detected at '^' marker.

Switch(config-if)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console
show vlan brief
```

| VLAN Name         | Status | Ports  |
|-------------------|--------|--|
| 1 default         | active | Fa0/6, Fa0/7, Fa0/8, Fa0/9<br>Fa0/10, Fa0/11, Fa0/12, Fa0/13<br>Fa0/14, Fa0/15, Fa0/16, Fa0/17<br>Fa0/18, Fa0/19, Fa0/20, Fa0/21<br>Fa0/22, Fa0/23, Fa0/24, Gig0/1<br>Gig0/2 |
| 10 ABLOCK         | active | Fa0/2, Fa0/3, Fa0/4, Fa0/5   |
| 20 CBLOCK         | active |  |
| 1002 fddi-default | active |  |

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### Instructions:

1. Different VLANs configuration setupscreenshot. (VLAN example given by lab faculty)
2. Write steps to create VLANs in packet tracer.
3. Mention IP address of each pc as label.
4. Ping command or PDU screenshot between two VLANs.