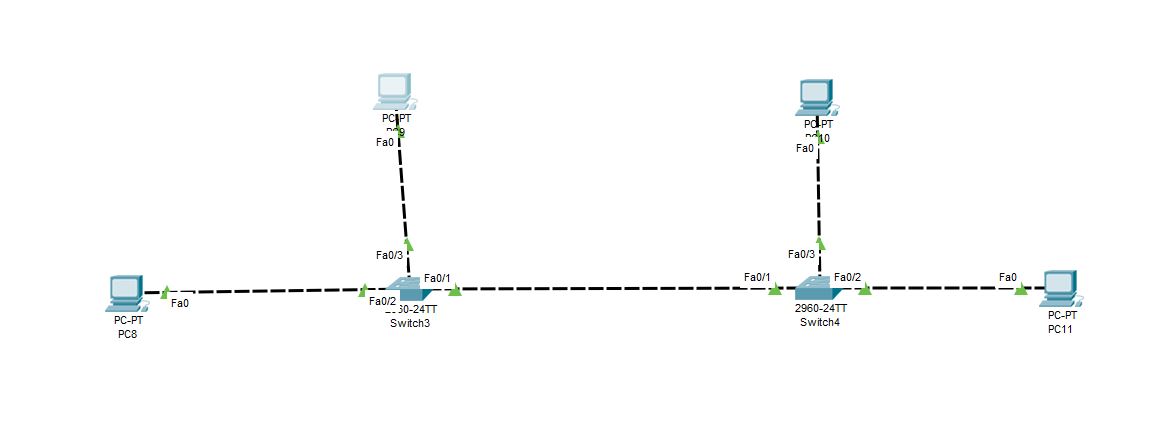
**PRACTICAL 6**

**Network Virtualization (Sending Data of 2 LAN’s from single data-link)**

**Aim –** Create a LAN network with 4 PC’s and 2 switches. Using network virtualization create two VLAN’s of two PC’s from one physical LAN’s.

**Topology –**



**Steps –**

*Step 1: Create Topology as shown above but do not assign the IP address to the PC.*

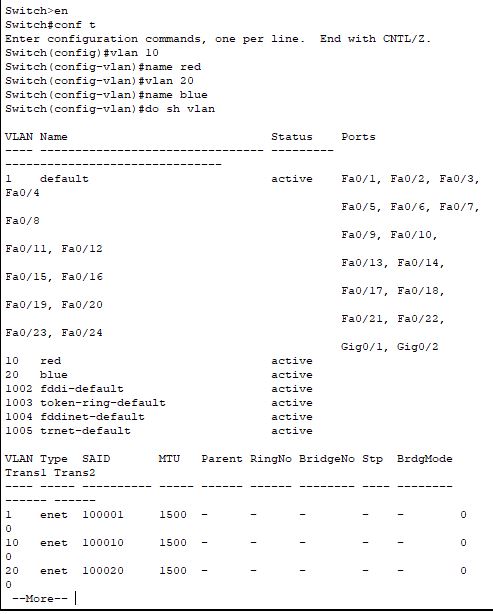
*Step 2: Start CLI for Switch and create tow vlans vlan red and vlan blue.*

**Syntax for creating VLAN:**

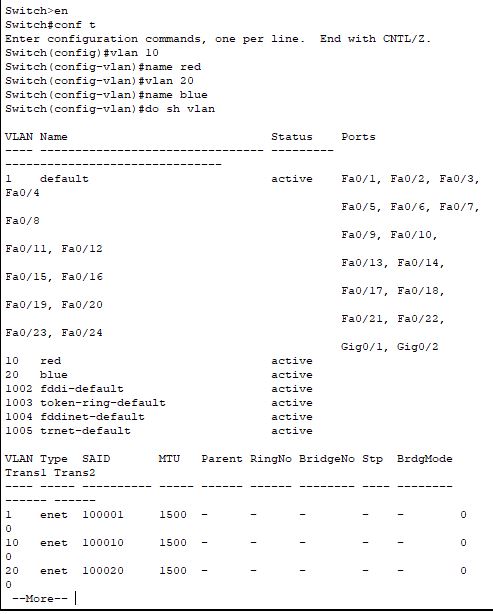
**vlan v\_number**

**name v\_name**

**Switch 1:**

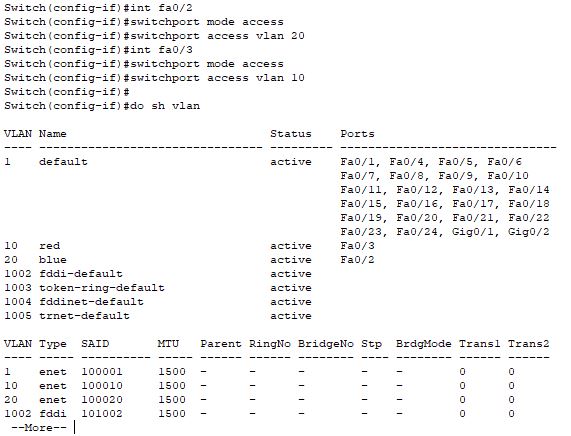
**

**Switch 2:**

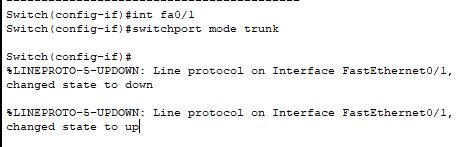
**

*Step 3: Now, start adding the PC’s to specific vlan*

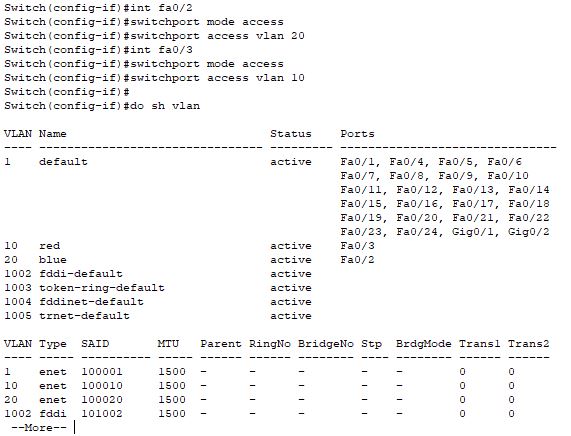
**Switch 1:**

****

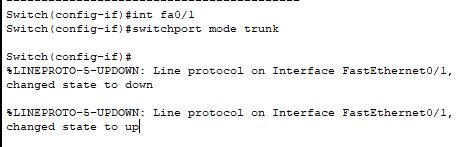
**To send the data of two VLAN’s from one link we use mode as *TRUNK***

**

**Switch 2:**

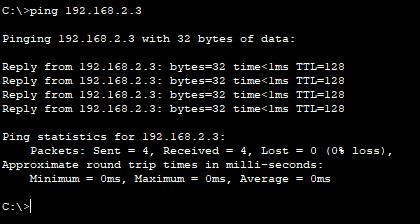
******

**To send the data of two VLAN’s from one link we use mode as *TRUNK***

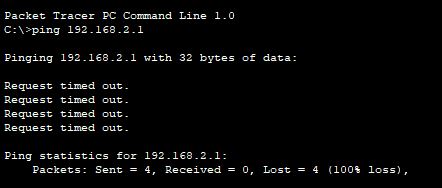
******

*Step 4: Now, When we will ping the PC’s from same VLAN they should give reply and for PC’s from different VLAN they won’t reply.*

**Same VLAN’s**

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**Different VLAN’s**

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