Assignment – 6

Configuration of Virtual LAN(VLAN).

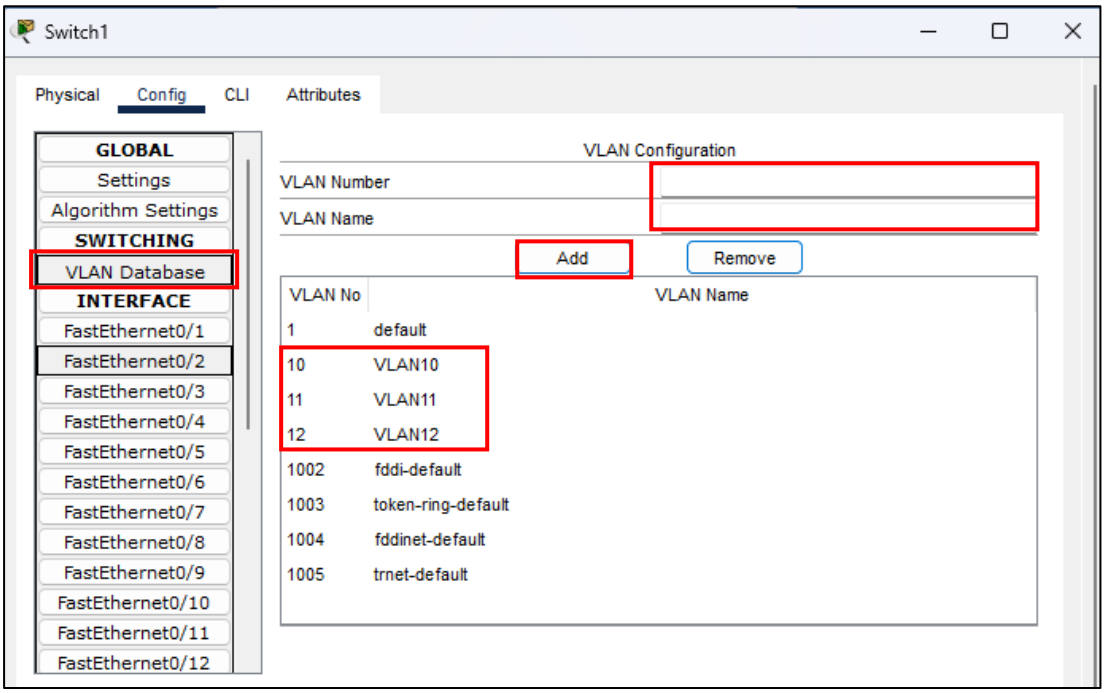
❖ Procedure:

Step 1 : Take 3 Switch, 18 PC's

Step 2 : Connect each Switch with 6 PC's and connect Switches with each other with Copper Stright-Through wire and Copper cross-over wire.

Step 3 : Assign IP Addresses to the PC's and each of them belongs to class C

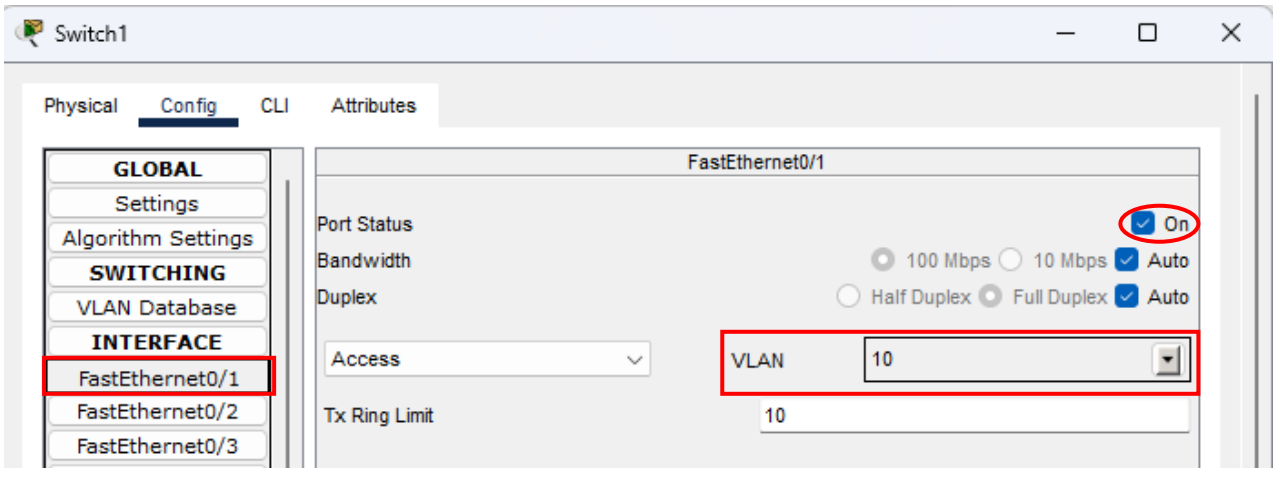
Step 4 : Configure one Switch and export the configuration file to another Switch



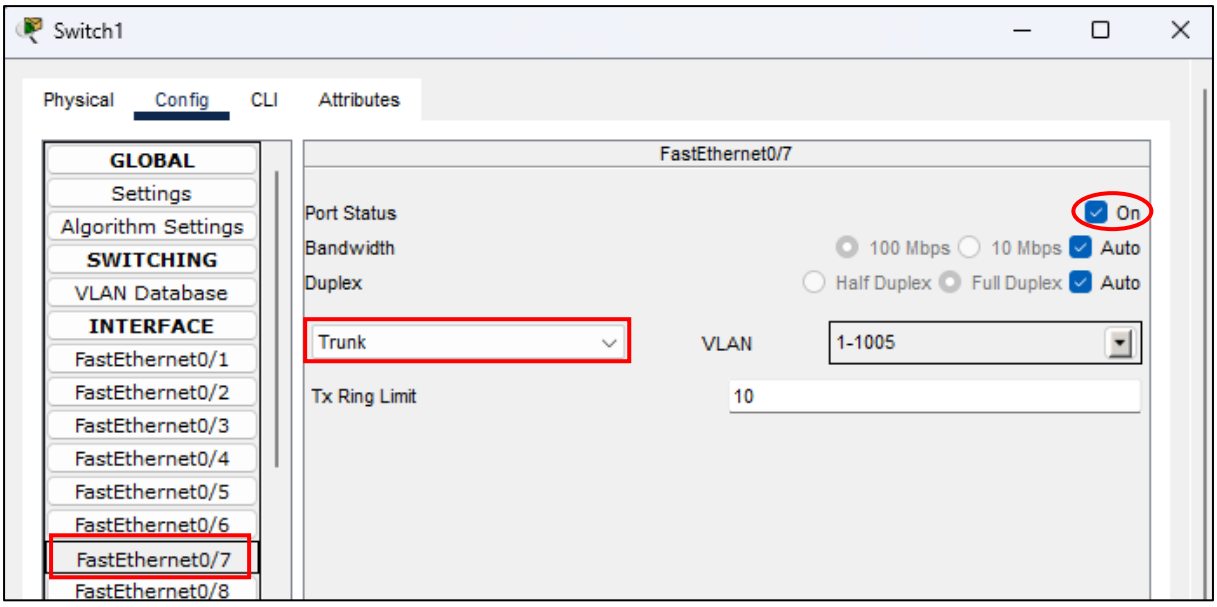
Step 4 : Enter the VLAN ID at VLAN Number and give a VLAN Name and then add

And add three VLAN with different VLAN Number

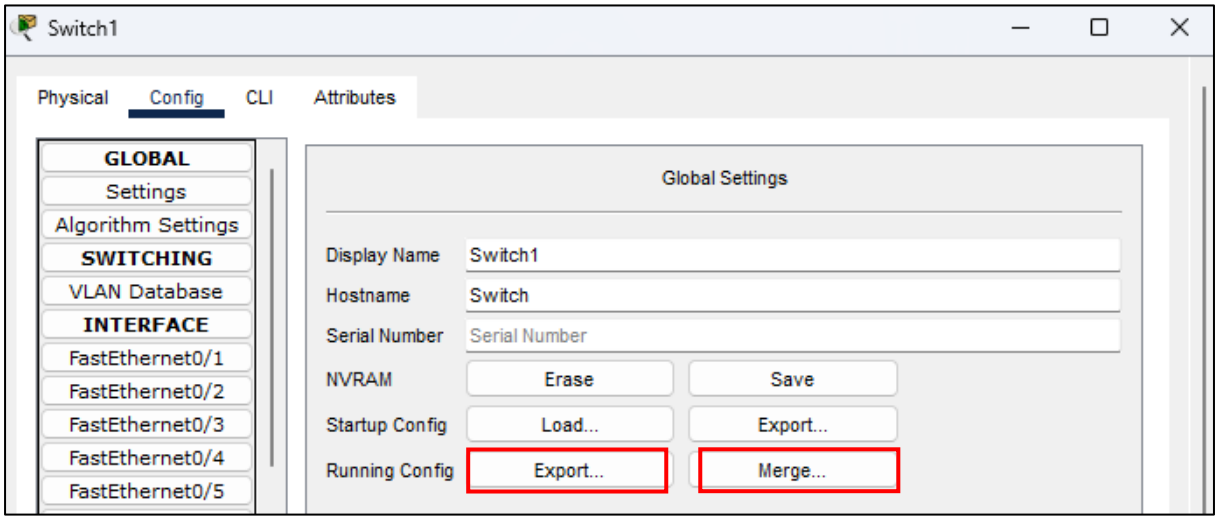
Step 5 : After that enable interface and select the VLAN for this port or interface



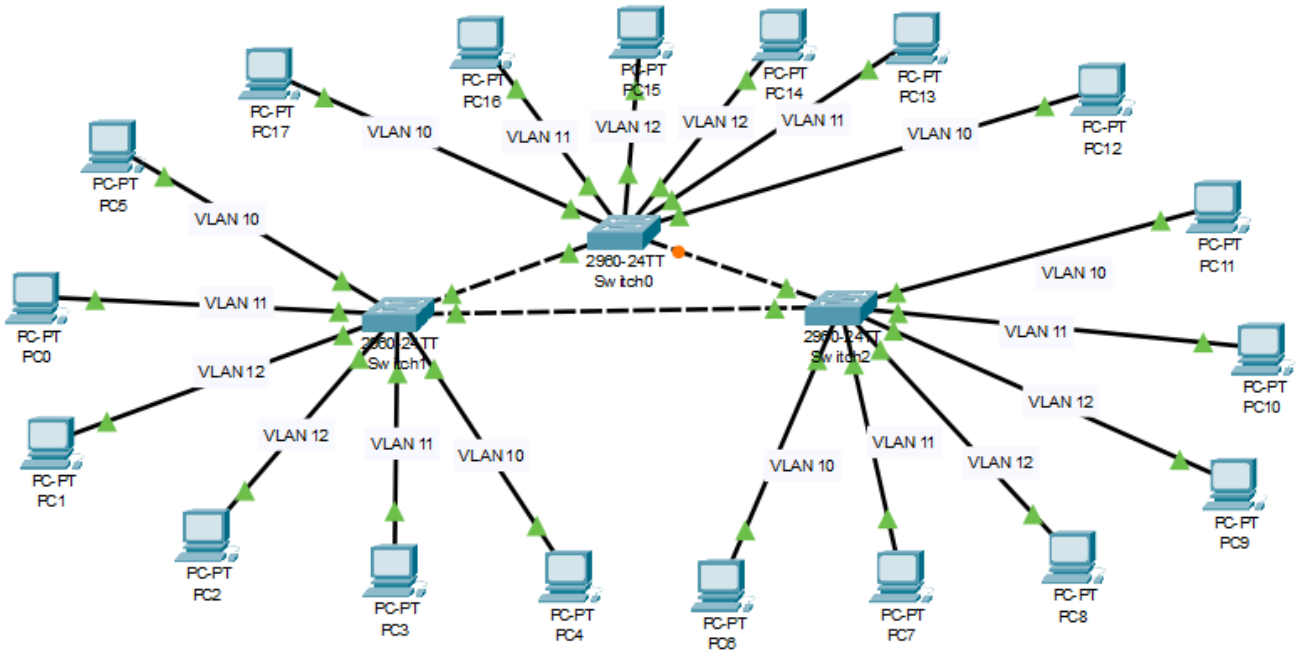
Step 6 : After that make interface Trunk which connected with others Switch Interface or port like this:



Step 7 : After that export the configuration file and merge with another Switch and everything is set and we check the response is coming or not.



❖ **Diagram**:



❖ **Output's**:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.17

Pinging 192.168.0.17 with 32 bytes of data:

Reply from 192.168.0.17: bytes=32 time<1ms TTL=128
Reply from 192.168.0.17: bytes=32 time=8ms TTL=128
Reply from 192.168.0.17: bytes=32 time<1ms TTL=128
Reply from 192.168.0.17: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.17:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 8ms, Average = 2ms
```

```
C:\>ping 192.168.0.18

Pinging 192.168.0.18 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.18:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Response coming from same VLAN PC's but in different VLAN PC's are not so VLAN configuration is successful.