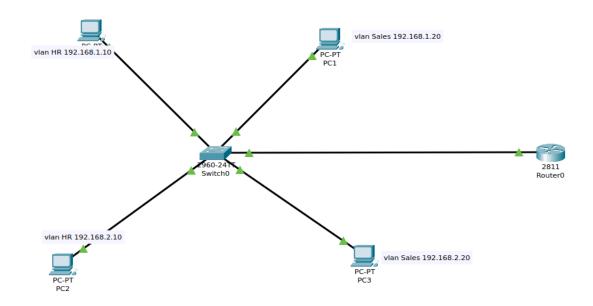
VLAN PROCEDURE

STEPS:

- 1.OPEN CISCO PACKET TRACER
- 2.CONSTRUCT THE VLAN NETWORK NETWORK AS SHOWN IN THE DIAGRAM BELOW.



3. CLICK ON EACH PC AND GO THE DESKTOP AND GIVE IP ADDREESS:

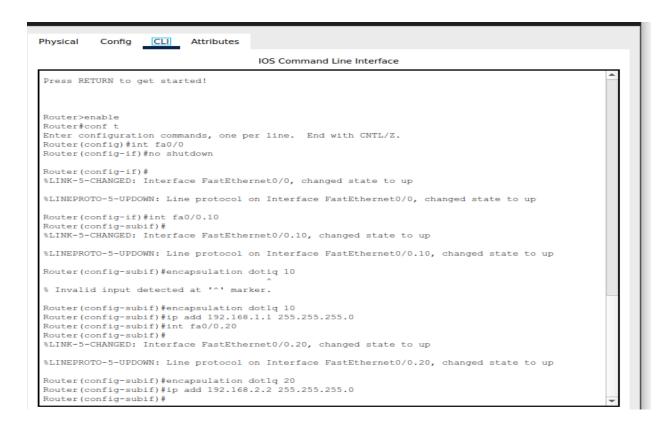
ASSIGN IP ADDRESS FOR

PC0: 192.168.1.10 AND GATEWAY AS 192.168.1.1 PC2: IP: 192.168. 2.10 ,GATEWAY: 192.168.2.2 PC1: IP:192.168.1.20 GATEWAY: 192.168.1.1 PC3: IP: 192.168.2.20, GATEWAY:192.168.2.2

4. CLICK SWITCH 2960 AND GO TO CLI TO CONFIGURE AS FOLLOWS:

```
Physical
                 Config
                             CLI Attributes
                                                             IOS Command Line Interface
  Switch#config terminal
 Enter configuration commands, one per line. End with CNTL/Z. Switch(config) #vlan 10
Switch(config-vlan) #name HR
Switch(config-vlan) #vlan 20
 Switch (config-vlan) #name
Switch (config-vlan) #port
 % Invalid input detected at '^' marker.
 Switch (config-vlan) #int fa0/1
 Switch(config-if) #switchport mode access
Switch(config-if) #switchport access vlan 10
 Switch(config-if)#int fa0/2
Switch(config-if)#switchport mode access
 Switch(config-if)#switchport access vlan10
 % Invalid input detected at '^' marker.
 Switch(config-if)#int fa0/3
Switch(config-if)#switchport access vlan 20
Switch(config-if)#switch modes access
 % Invalid input detected at '^' marker.
 Switch(config-if) #switchport mode access
 Switch(config-if)#switchport access vlan 20
 Switch(config-if)#int fa0/4
Switch(config-if)#int fa0/4
Switch(config-if)#switchport mode access
Switch(config-if)#switchport access vlan 20
Switch(config-if)#int fa0/5
Switch(config-if)#switchport mode trunk
 Switch (config-if) #
Switch (config-if) #
 %LINK-5-CHANGED: Interface FastEthernet0/5, changed state to up
```

5.CLICK ON THE ROUTER AND GO TO CLI AND COFIGURE AS FOLLOWS:



6. CLICK ON ANY PC AND CLICK DESKTOP TAB->COMMAND PROMPT AND TYPE ANY IP ADDRESS OF PCS TO ENABLE COMMUNICATION .
EX: PING 192.168.2.20

YOU WILL GET THE OUTPUT AS BELOW

```
C:\>PING 192.168.2.20

Pinging 192.168.2.20 with 32 bytes of data:

Reply from 192.168.2.20: bytes=32 time=6ms TTL=128
Reply from 192.168.2.20: bytes=32 time<lms TTL=128
Reply from 192.168.2.20: bytes=32 time<lms TTL=128
Reply from 192.168.2.20: bytes=32 time<lms TTL=128

Ping statistics for 192.168.2.20:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 6ms, Average = 1ms

C:\>
```