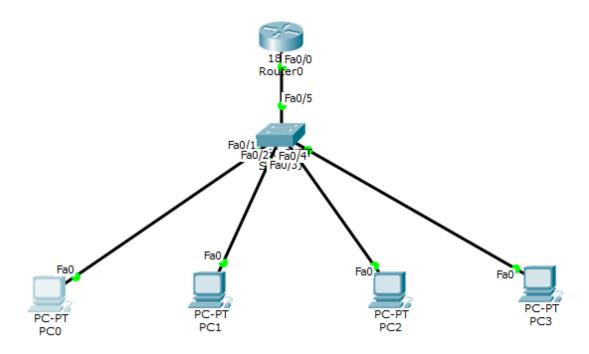
VLAN-Virtual LAN

Construct the topology as shown. With switch -2960, router 1841



- 1. Configure the ip addresses and gateway tp PCs.
- 2.In router configure the left side network (fa 0/0)- 192.168.1.1
- 3. Go to switch ->config->vlan-database->set vlan name and number Vlan name can be anything, vlan number is based on the right side network (192.168.20.2) vlan number is 20.
- 4. Switch->config>fast ethernet 5->trunk(dropdown menu)
- 5. (For right side systems) Switch ->config->fast ethernet 3->vlan 20 switch->fast ethernet 4-> vlan 20.
- 6. Go to router cli and type the following commands

```
Router(config) #interface fastEthernet 0/0.1
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 dotlq 20
Router(config-subif) #ip address 192.168.20.1 255.255.255.0
Router(config-subif) #no shutdown
Router(config-subif) #exit
Router(config) #exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

Ping the pc

```
PC>ping 192.168.20.2

Pinging 192.168.20.2 with 32 bytes of data:

Reply from 192.168.20.2: bytes=32 time=0ms TTL=127

Ping statistics for 192.168.20.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>
```