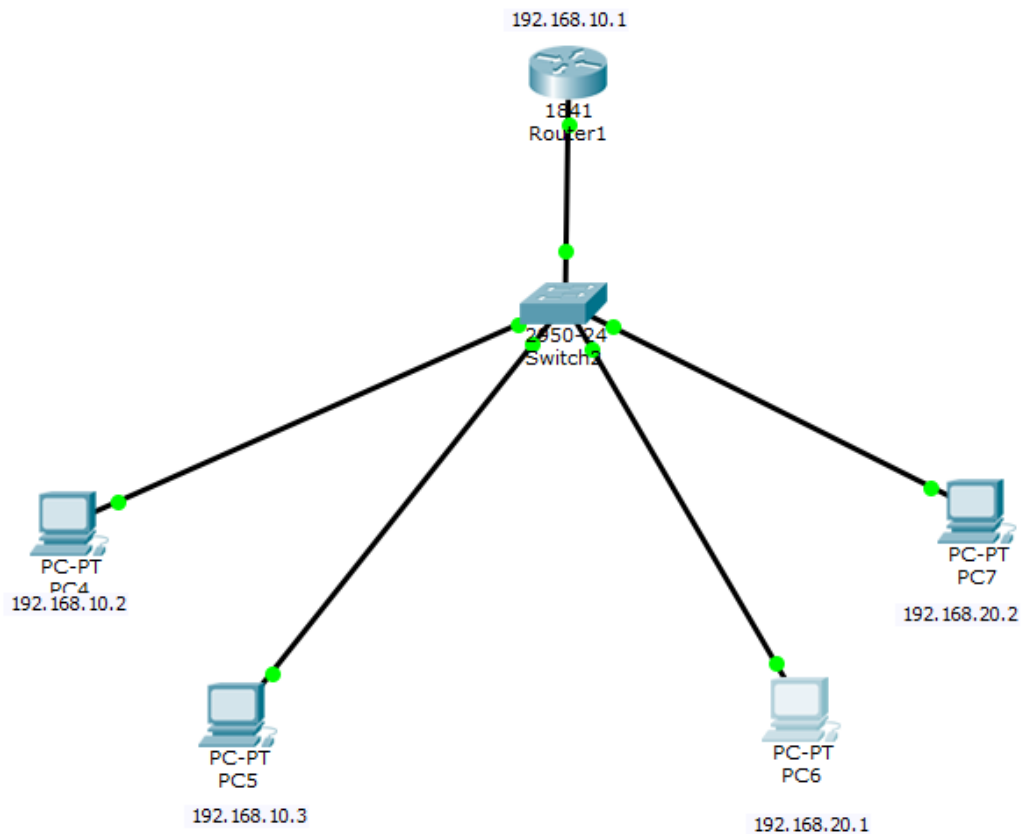


## LAB-8

8)a)To Create virtual on top of the virtual LAN and enable communications between physical LAN and virtual LAN

Daigram:=



Adding LNA Values:=

VLAN Number		
VLAN Name		
		<input type="button" value="Add"/> <input type="button" value="Remove"/>
VLAN No	VLAN Name	
1	default	
20	VLAN1	
1002	fddi-default	
1003	token-ring-default	
1004	fddinet-default	
1005	trnet-default	

## OUTPUT:=

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.10.1

Pinging 192.168.10.1 with 32 bytes of data:

Reply from 192.168.10.1: bytes=32 time=0ms TTL=255
Reply from 192.168.10.1: bytes=32 time=0ms TTL=255
Reply from 192.168.10.1: bytes=32 time=0ms TTL=255
Reply from 192.168.10.1: bytes=32 time=0ms TTL=255

Ping statistics for 192.168.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 192.168.10.2

Pinging 192.168.10.2 with 32 bytes of data:

Reply from 192.168.10.2: bytes=32 time=0ms TTL=127
Reply from 192.168.10.2: bytes=32 time=0ms TTL=127
Reply from 192.168.10.2: bytes=32 time=0ms TTL=127
Reply from 192.168.10.2: bytes=32 time=0ms TTL=127

Ping statistics for 192.168.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>
```

Packet Tracer PC Command Line 1.0

PC>ping 192.168.20.1

Pinging 192.168.20.1 with 32 bytes of data:

Reply from 192.168.20.1: bytes=32 time=0ms TTL=127

Reply from 192.168.20.1: bytes=32 time=0ms TTL=127

Reply from 192.168.20.1: bytes=32 time=0ms TTL=127

Reply from 192.168.20.1: bytes=32 time=0ms TTL=127

Ping statistics for 192.168.20.1:

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

Approximate round trip times in milli-seconds:

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

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

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

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

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>ping 192.168.20.3

Pinging 192.168.20.3 with 32 bytes of data:

Reply from 192.168.20.3: bytes=32 time=0ms TTL=255

Reply from 192.168.20.3: bytes=32 time=0ms TTL=255

Reply from 192.168.20.3: bytes=32 time=0ms TTL=255

Reply from 192.168.20.3: bytes=32 time=0ms TTL=255

Ping statistics for 192.168.20.3:

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

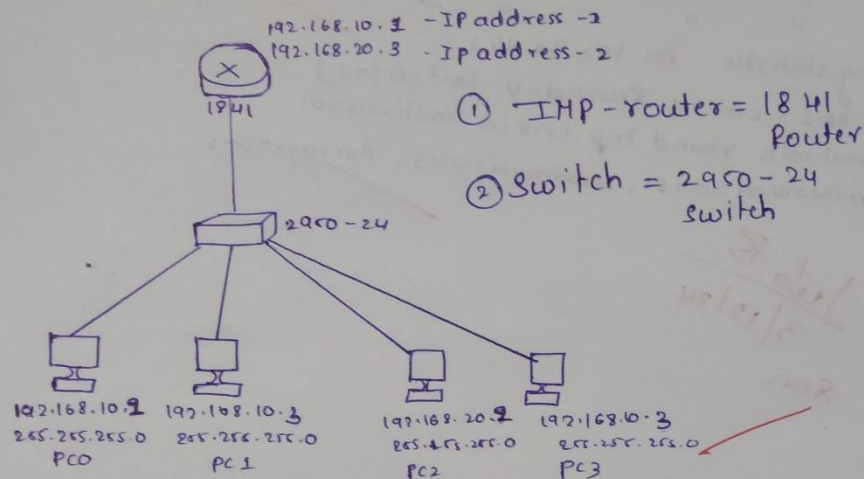
Approximate round trip times in milli-seconds:

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

PC>

## Observation: =

- 3) a) to create virtual lan on top of the virtual lan and enable communications b/w physical lans and virtual lan
- \* logical n/w and top of the physical n/w - it called as Trunk interface
- PC-8 =  $2^8 + 2^3 + 2^1 + 2$  data word append binary division ~~small~~ remainder append to the data word



- give ip address for PC0, PC1 as given in diagram
- give IP address for router where in given router add the ip address 1
  - enable
  - config
  - interface fastEthernet 0/0
  - ip address 192.168.10.2 255.255.255.0
  - no shutdown
  - exit
- click on switch in vln database give vlan no as 20 vlan name as VLAN1 and add the value.
- for switch only fast Ethernet 0/13 as - Access give VLAN as 20 similar for fast Ethernet 0/10 and for fast Ethernet 0/15 make Trunk
- for fast Ethernet 0/15 make Trunk.
- give ip address for PC2, PC3 as given in above
- in router in vlan database add no as 20 and vlan name as VLAN2.
- Router command execute done
  - config
  - interface fast Ethernet 0/0.1
  - ip address 192.168.20.3 255.255.255.0
  - no shutdown
  - exit

# Observation - pinging from PC3 to PC0

Ping 192.168.10.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time=0ms TTL=255

" " " " "  
" " " " "  
" " " " "

ping statistics for 192.168.10.1

Packets: sent=4 Received=4 Lost=0 (0%)

Approximate round trip time in milliseconds

minimum=0ms, maximum=0ms, Average=0ms

Indo.B  
3/12/24

seen

