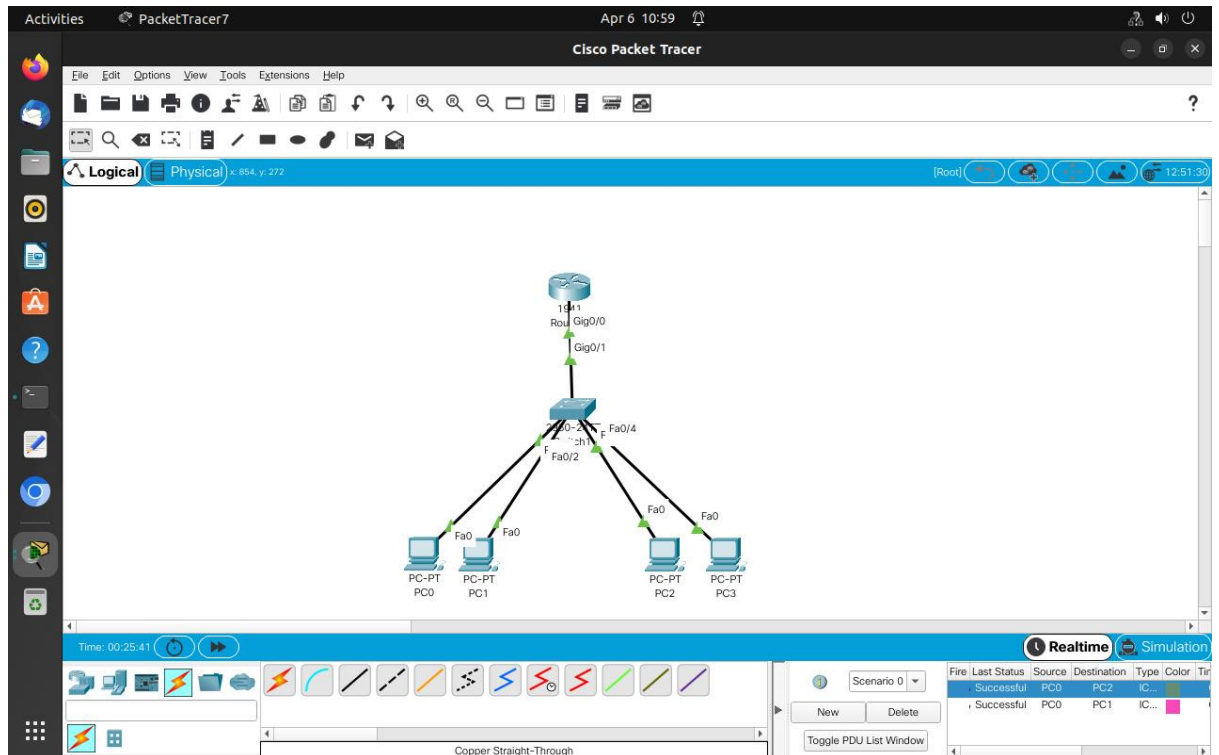


## ASSIGNMENT – 8

- **QUESTION:**

## Virtual Local Area Network (VLAN)

- **NETWORK LAYOUT:**



- **CODE:**

## switch0

> en

```
# vlan database
```

```
#(vlan) vlan 2 name CSE
```

```
#(vlan) vlan 3 name IT
```

```
# exit
# config terminal
# interface range 0/2 – 3
# switchport mode access
# switchport access vlan 2
# exit
# interface range 0/4 – 5
# switchport mode access
# switchport access vlan 3
```

### **router0**

```
> en
# config terminal
# interface gi 0/0
# no shutdown
# interface gi 0/0.1
# encapsulation dot1q 2
# ip address 192.168.10.1 255.255.255.0
# exit
# interface gi 0/0.2
# encapsulation dot1q 3
# ip address 192.168.11.1 255.255.255.0
```

**For inter VLAN:**

**switch0**

>en

# config terminal

# interface fa 0/1

#switchport mode trunk

- **IPv4 CONFIGURATION:**

**pc0**

**IPv4 Address:** 192.168.10.2

**Subnet Mask:** 255.255.255.0

**Default Gateway:** 192.168.10.1

**pc1**

**IPv4 Address:** 192.168.10.3

**Subnet Mask:** 255.255.255.0

**Default Gateway:** 192.168.10.1

**pc2**

**IPv4 Address:** 192.168.11.2

**Subnet Mask:** 255.255.255.0

**Default Gateway:** 192.168.11.1

### pc3

**IPv4 Address:** 192.168.11.3

**Subnet Mask:** 255.255.255.0

**Default Gateway:** 192.168.11.1

- **OUTPUT:**

Switch#show vlan brief

VLAN Name	Status	Ports
-----		
1 default	active	Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16 Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24 Gig0/2
2 CSE	active	Fa0/1, Fa0/2
3 IT	active	Fa0/3, Fa0/4
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

Switch#