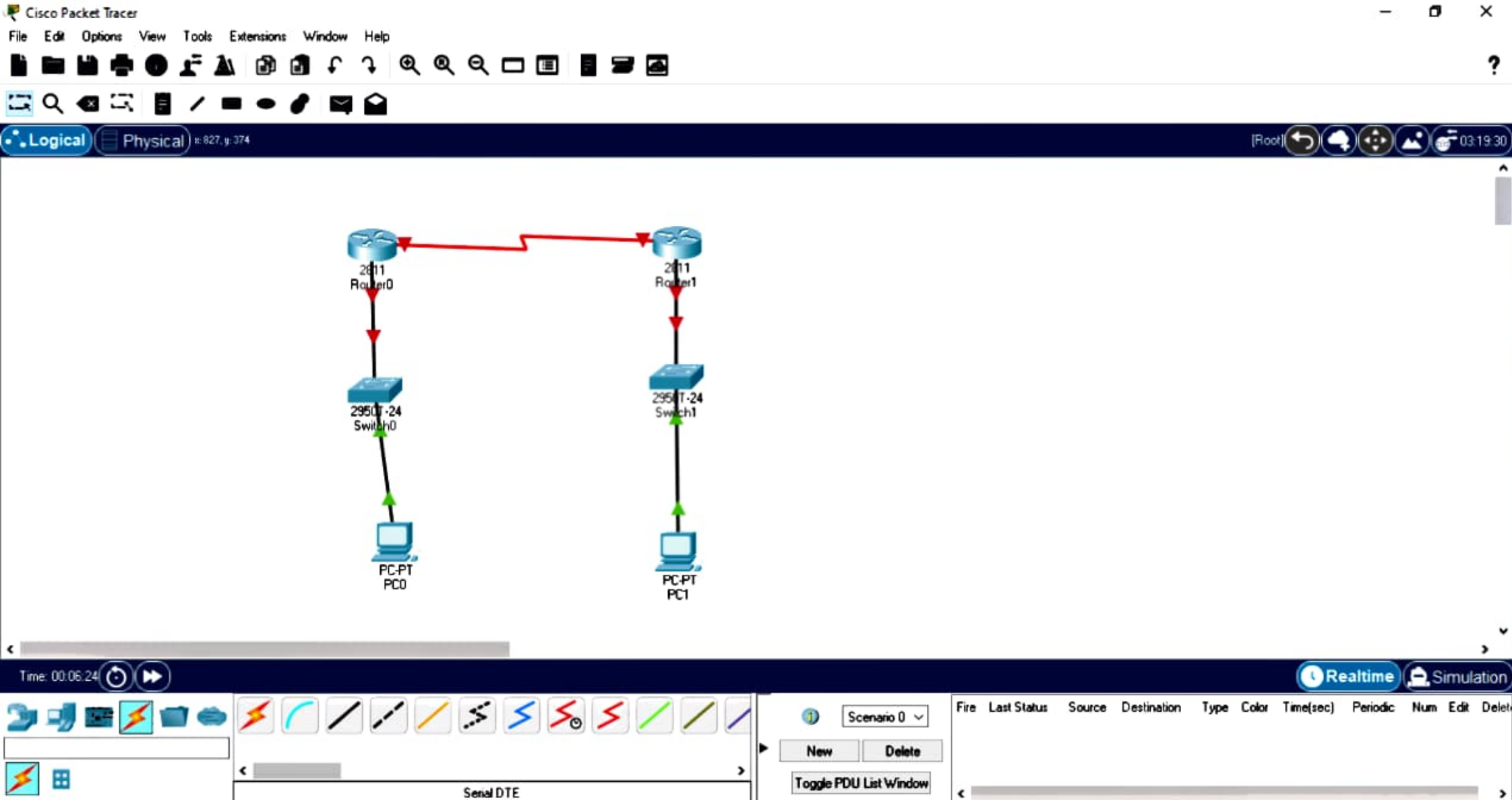


Name - Gaurav Rawat Course - MCA - A University Roll No - 2001062a
Subject Name - Computer Network
Subject Code - TMC - 203

Q2 Problem Statement : Design a network between SOC department of G.E.U. and G.E.H.U. and show connection between them.
Objective : To understand how to connect LAN's using Router.

- Step 1: Add 2 routers on logical screen.
- Step 2: Add 2 PC's and 2 LAN.
- Step 3: Join all the components with Copper Straight.
- Step 4: Configure both the routers to connect each other.
- Step 5: Connect Routers with DTE
- Step 6: Configure Router ID address.
- Step 7: Configure PC address.
- Step 8: Check network by sending Package

Rawat



Cisco Packet Tracer

File Edit Options View Tools Extensions Window

Logical Physical n: 1043, y: 72

Time: 00:07:52

Serial DTE

Router0

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/1/0

FastEthernet0/0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0004.9AC6.6D01

IP Configuration

IPv4 Address 192.168.1.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
ip address 192.168.1.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/1/0
Router(config-if)#clock rate 64000
This command applies only to DCE interfaces
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

☐ Top

Toggle PDU List Window

[Root]

04:05:30

Realtime Simulation

ination Type Color Time(sec) Periodic Num Edit Delete

Router0

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Serial0/1/0

Serial0/1/0

Port Status ☐ On

Duplex ☒ Full Duplex

Clock Rate **64000**

IP Configuration

IPv4 Address **10.0.0.1**

Subnet Mask **255.0.0.0**

Tx Ring Limit **10**

Equivalent IOS Commands

```
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface Serial0/1/0  
Router(config-if)#clock rate 64000  
This command applies only to DCE interfaces  
Router(config-if)#ip address 10.0.0.1 255.0.0.0  
Router(config-if)#ip address 10.0.0.1 255.0.0.0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet0/0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface Serial0/1/0  
Router(config-if)#
```

☐ Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Window

Logical Physical

Time: 00:10:51

PC0

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 10.0.0.2

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::290:CFF:FE68:790E

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

[Root]

Realtime Simulation

mination Type Color Time(sec) Periodic Num Edit Delete

Cisco Packet Tracer

File Edit Options View Tools Extensions Window

Logical Physical

z: 350, y: 344

PC0

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.1.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80:290:CFF:FE6B:790E

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

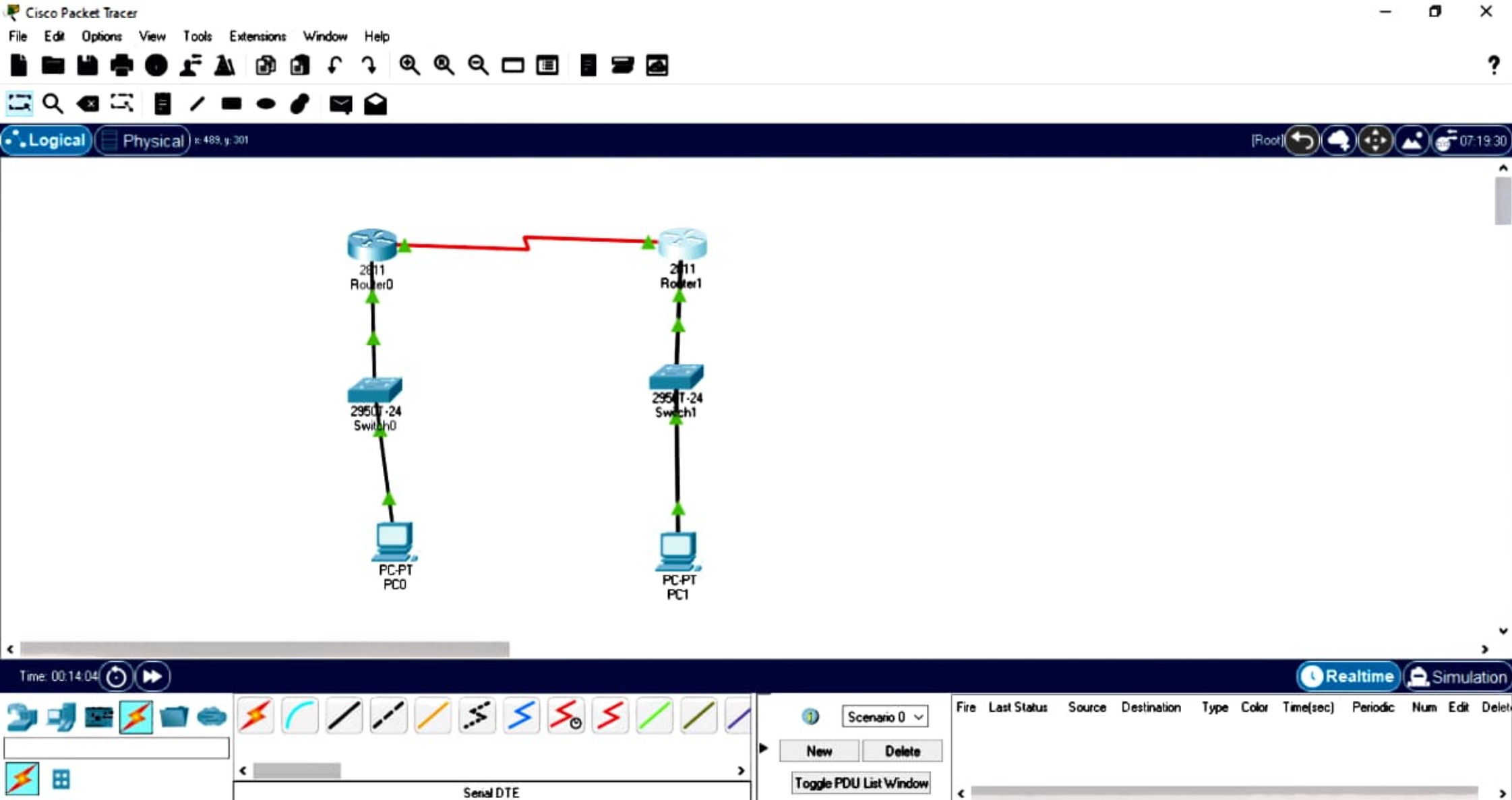
☐ Top

[Root]

07:22:30

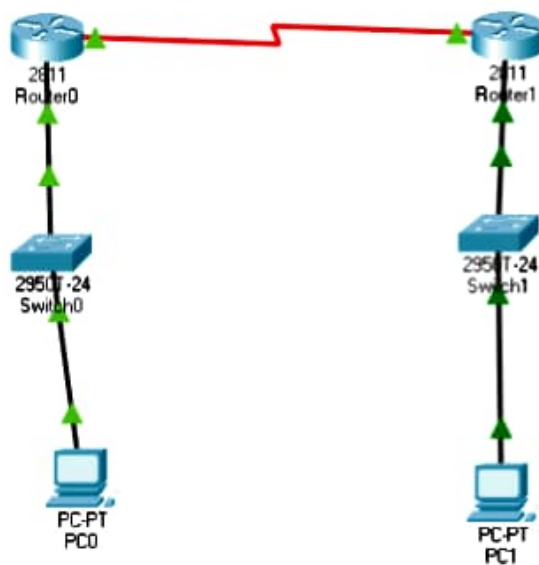
Realtime Simulation

ination Type Color Time(sec) Periodic Num Edit Delete






[Rock]  07:58:00



Realtime Simulation



New **Delete**

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	Router0	ICMP		0.000	N	0	(edit)	(delete)

Successful	PC1	Router1	ICMP	0.000	N	2	(edit)	(delete)
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