

Name - Tanaya Gupta
Course / Sec - MCA - 2-B
Univ Roll no - 2001157

Subject Name - Computer Networks
Subject Code - TMC-203
Student Id - 20712068

Question-2

Problem Statement :- There are 2 organizations in a city named GEU & GEHU, design a network between the SOC department of GEU & GEHU. Also, show the Comm" b/w user number 1 of GEU & User Number 2 of GEHU.

Objective :- To understand how to connect hosts using router.

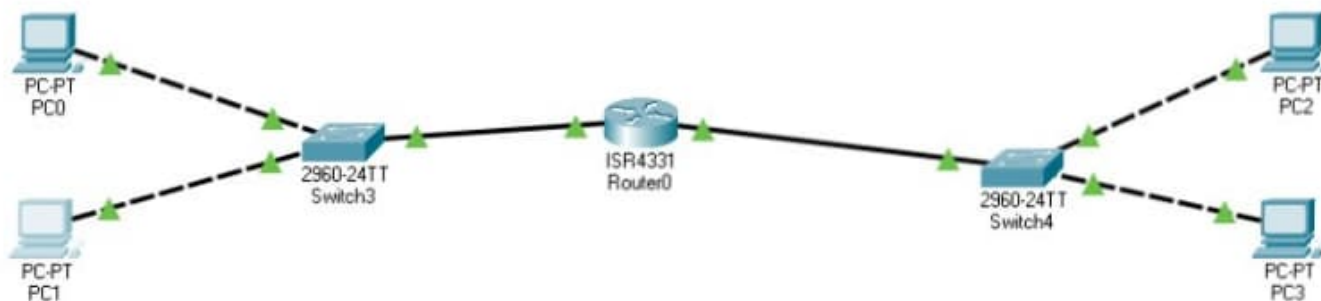
Description :-

Step 1 : Designing the network

Step 2 : Assigning IP to PC

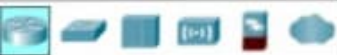
Step 3 : Confirming the network by sending msg from PC1 of GEU to PC2 of GEHU.

Tanaya



Time: 00:01:02

Realtime Simulation



Scenario 0

New

Delete

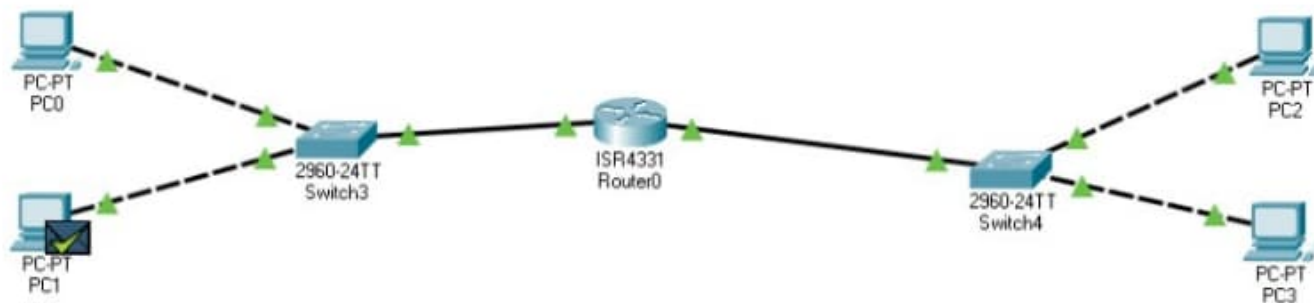
Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit



Logical Physical n: 637, y: 358

[Root] 01:04



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.005	PC2	Switch4
	0.006	Switch4	Router0
	0.007	Router0	Switch3
<input checked="" type="checkbox"/>	0.008	Switch3	PC1

Reset Simulation

☒ Constant Delay

Captured 0.00

Play Controls



Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT, TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv6, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters

Show All/None

Time: 00:01:26.073 PLAY CONTROLS



Scenario 0
New Delete
Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
<input checked="" type="checkbox"/>	Successful	PC1	PC2	ICMP	<div></div>	0.000	N	0	(edit)

File Edit Options View Tools Extensions Window

Logical Physical n: 306, p: 234

PC-PT PC0

2960-24T1 Switch3

PC-PT PC1

Time: 00:00:33

4331 4321 1941

Physical Config Desktop Programming Attributes

IP Configuration

Dial-up

Terminal

Command Prompt

Web Browser

PC Wireless

VPN

Traffic Generator

MIB Browser

Cisco IP Communicator

Email

PPPoE Dialer

Text Editor

Firewall

IPv6 Firewall

☐ Top

2911

Toggle PDU List Window

[Root]

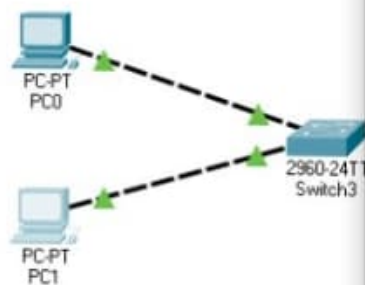
00:17:30

Realtime Simulation

Destination	Type	Color	Time(sec)	Periodic	Num	Edit
-------------	------	-------	-----------	----------	-----	------



Logical Physical n: 306, p: 234



Time: 00:00:38



PC1

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.254

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::201:43FF:FE9D:BAA2

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

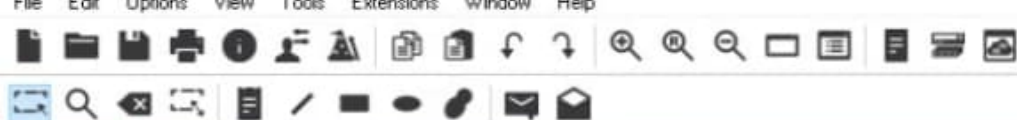
☐ Top

[Root] 00:20:00

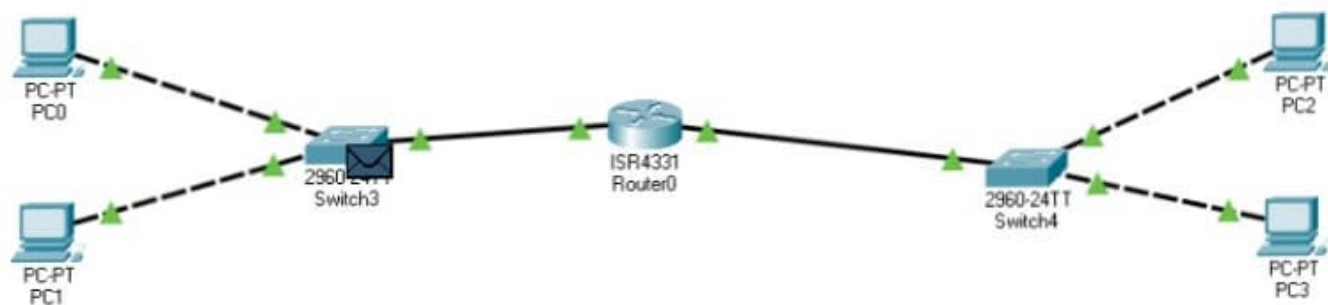
Realtime Simulation

Destination Type Color Time(sec) Periodic Num Edit De

Toggle PDU List Window



Logical Physical n: 252, g: 429



[Root] 00:43

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.000	-	PC1
<input checked="" type="checkbox"/>	0.001	PC1	Switch3

Reset Simulation ☒ Constant Delay Captured 0.001

Play Controls



Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT, TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters

Show All/None



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.000	-	PC1
	0.001	PC1	Switch3
	0.002	Switch3	Router0

Reset Simulation

☒ Constant Delay

Captured 0.002

Play Controls



Event List Filters - Visible Events:

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters

Show All/None

Time: 00:01:26.067 PLAY CONTROLS

4331 4321 1941 2901 2911 81910X 819HGW 829 1240 PFI-Router PFI-Empty 104

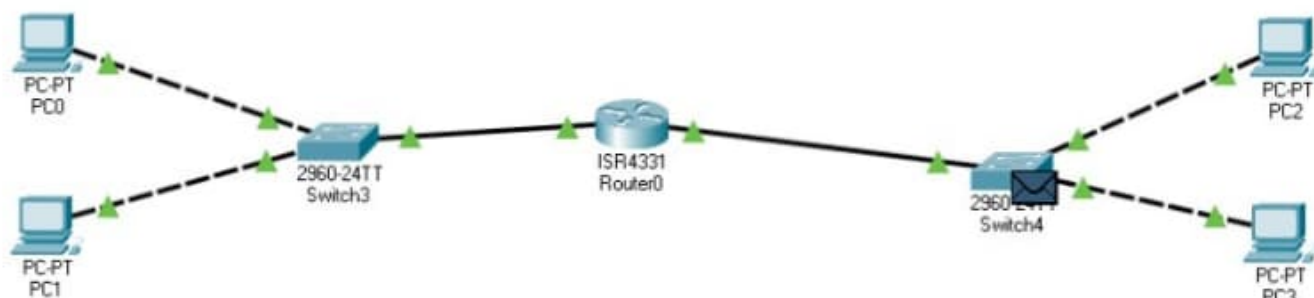
2901

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
	In Progress	PC1	PC2	ICMP		0.000	N	0	(edit)



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.000	--	PC1
	0.001	PC1	Switch3
	0.002	Switch3	Router0
<input checked="" type="checkbox"/>	0.003	Router0	Switch4

Reset Simulation ☒ Constant Delay Captured 0.003

Play Controls



Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Event List Realtime Simulation

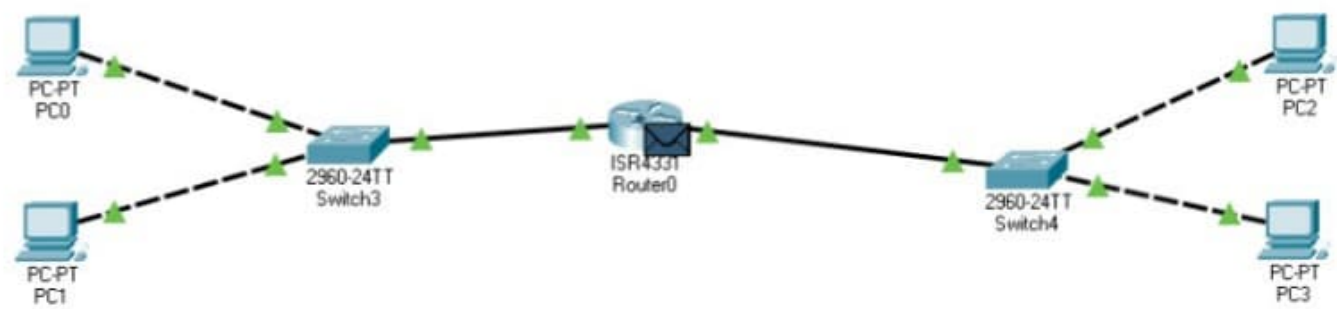
Time: 00:01:26.068 PLAY CONTROLS

4331 4321 1941 2901 2911 81910X 819HGW 829 1240 PT-Router PT-Empty 104

Scenario 0

New Delete

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
<input checked="" type="checkbox"/>	In Progress	PC1	PC2	ICMP		0.000	N	0	(edit)



Simulation Panel

Event List

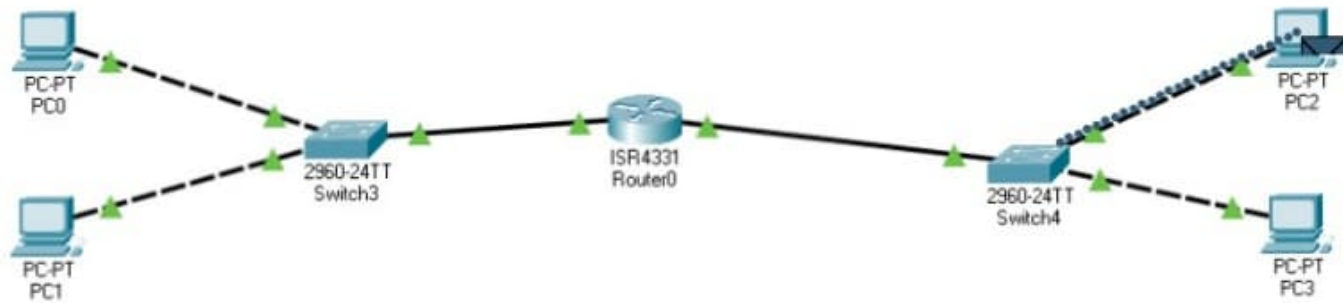
Vis.	Time(sec)	Last Device	At Device
	0.003	Router0	Switch4
	0.004	Switch4	PC2
	0.005	PC2	Switch4
	0.006	Switch4	Router0

☒ Constant Delay
 Captured 0.006

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.001	PC1	Switch3
	0.002	Switch3	Router0
	0.003	Router0	Switch4
<input checked="" type="checkbox"/>	0.004	Switch4	PC2

Reset Simulation ☒ Constant Delay Captured 0.00

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT, TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RAD, REP, RIP, RIPv2, RTP, SCCP, SMTP, SNMP, SS, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

