

Name : Rhesraj Bhandari

Course : MCA - C

Student Id : 20711193

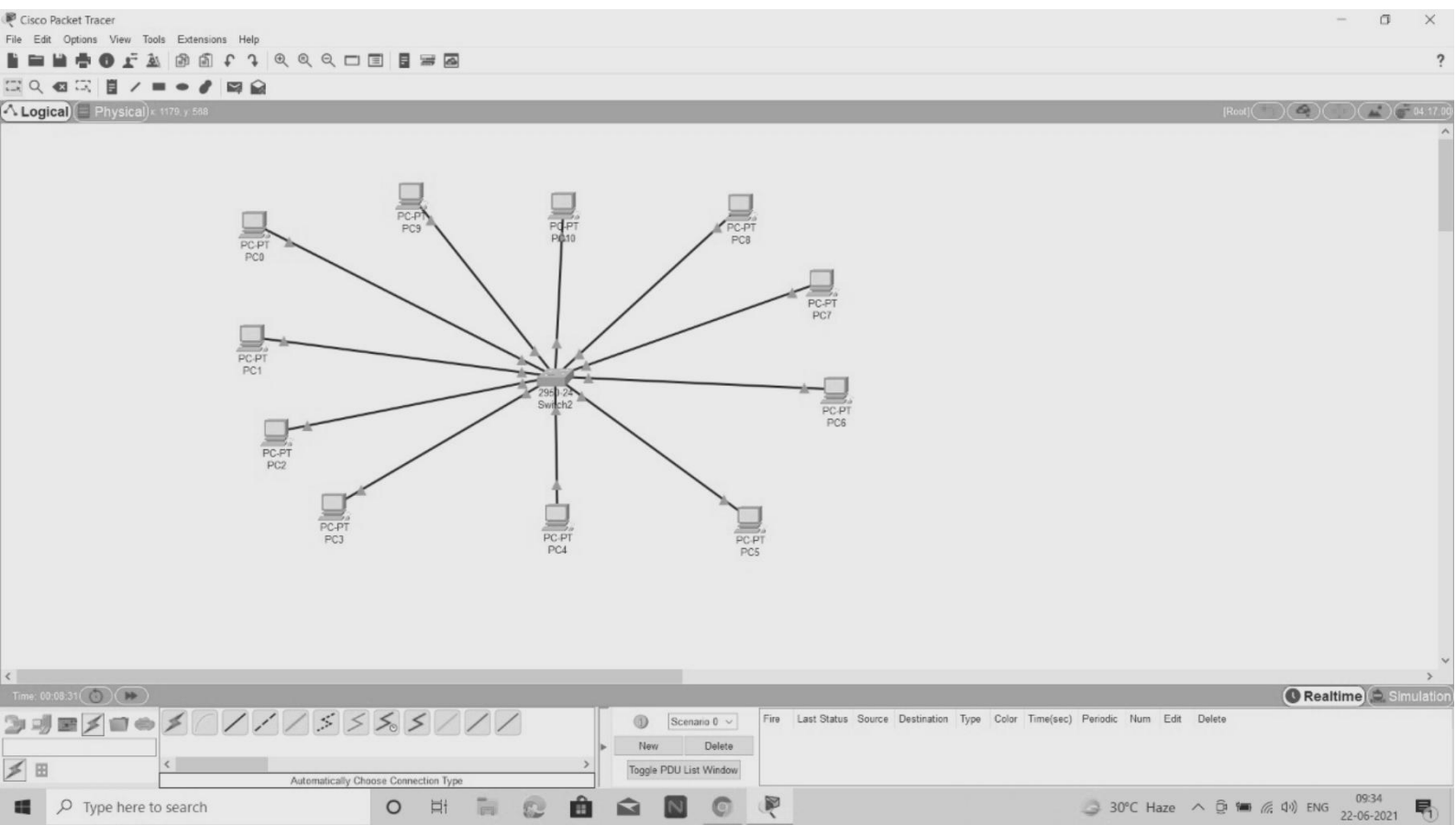
Ques-1)

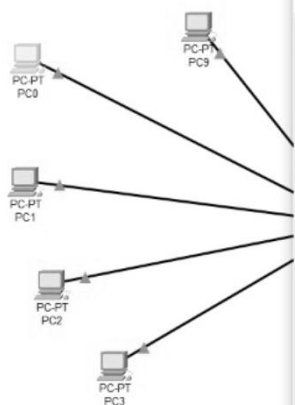
**Problem Statement :** There is an organization A with multiple department. Design a network for the HR Department and the size of the department is 10 users. Also show the communication between user ~~no~~ 1 and user number 5 of the network.

**Objective :** By this question we are learning to make a network inside any building by using switch, copper straight through cable and different PC.

**Task of Network :**

- 1) Step 1 : Design a network
- 2) Step 2 : Assign IP to every PC
- 3) Step 3 : Confirming the network by sending message from PC1 to PCs.





PC0

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 198.68.10.1

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80::200:CFF:FE8B:5635

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

☐ Top



Automatically Choose Connection Type

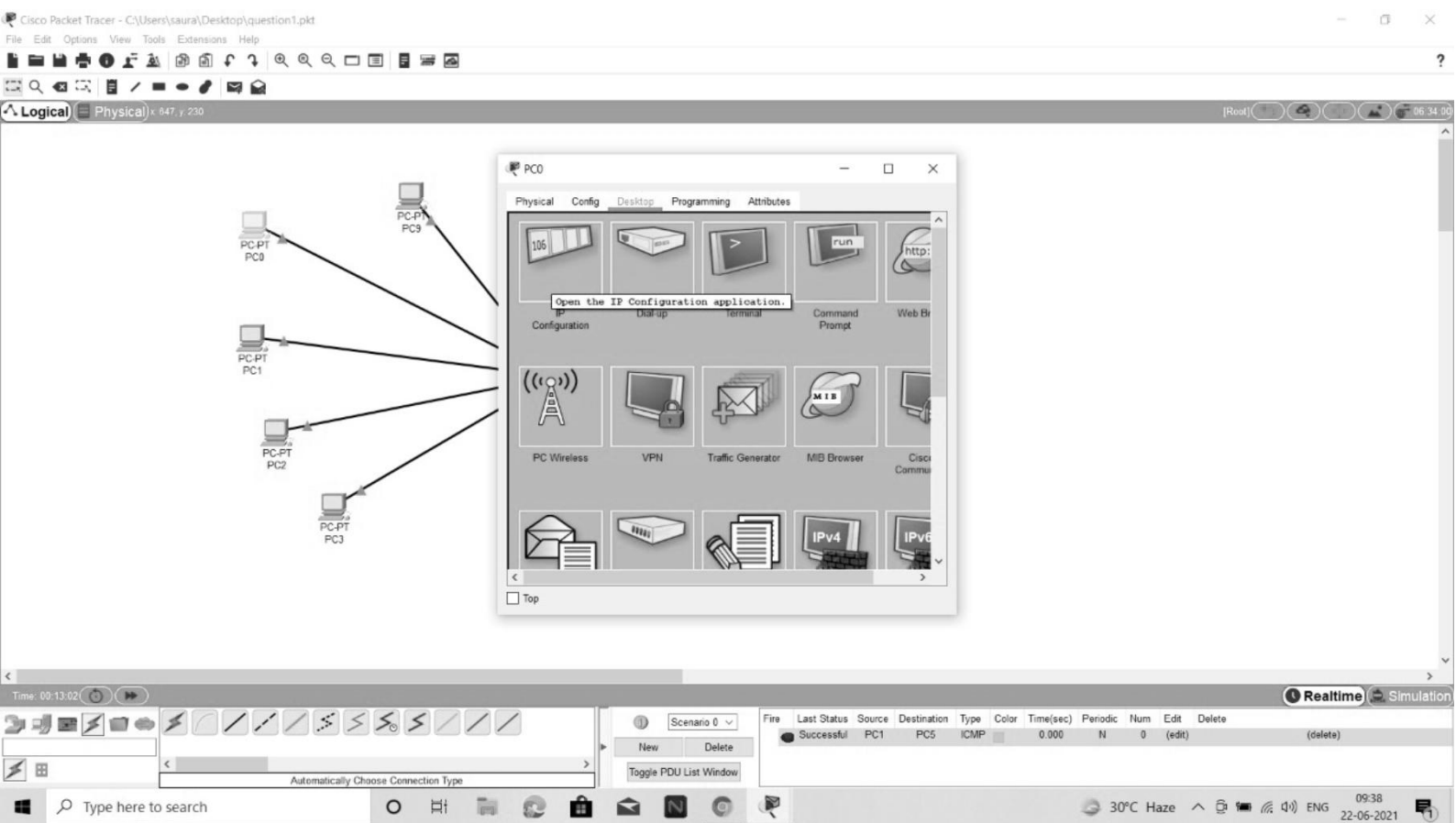
Scenario 0

New Delete

Toggle PDU List Window

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

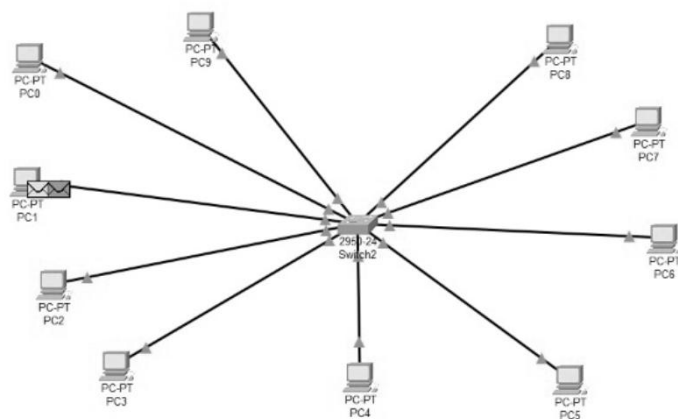
Successful PC1 PC5 ICMP 0.000 N 0 (edit) (delete)





Logical Physical x 1430, y 589

[Real] 07:09:00

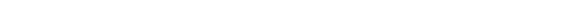
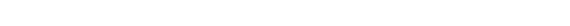
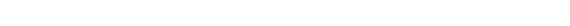


Simulation Panel

Event List

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

Time: 00:14:12.572 PLAY CONTROLS



Scenario 0

New Delete

Toggle PDU List Window

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

In Progress PC1 PC5 ICMP 0.000 N 0 (edit) (delete)

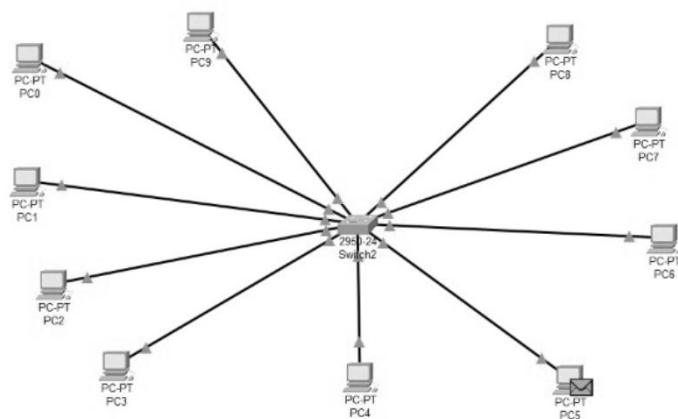
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30°C Haze 09:40 22-06-2021



Logical Physical x 1411, y 555

[Real] 07:55:00



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	PC1	ICMP
	0.001	PC1	Switch2	ICMP
	0.002	Switch2	PC5	ICMP

Time: 00:14:23.529 PLAY CONTROLS



Automatically Choose Connection Type

Scenario 0

New Delete

Toggle PDU List Window

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

In Progress PC1 PC5 ICMP 0.000 N 0 (edit) (delete)

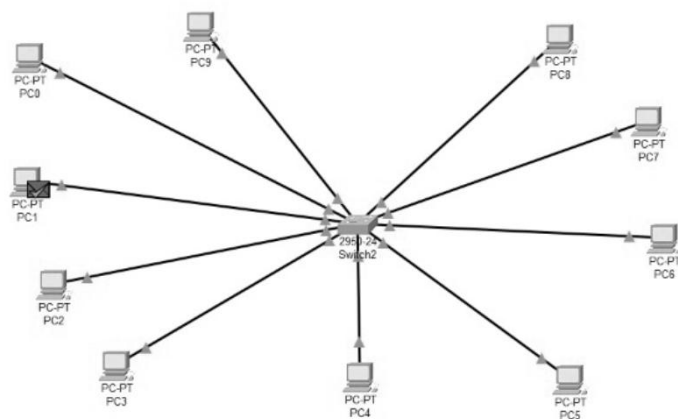
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30°C Haze 09:41 22-06-2021



Logical Physical x 1403, y 663

[Realtime] 08:21:30



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	PC1	ICMP
	0.001	PC1	Switch2	ICMP
	0.002	Switch2	PC5	ICMP
	0.003	PC5	Switch2	ICMP
	0.004	Switch2	PC1	ICMP

Reset Simulation ☒ Constant Delay Captured to: 0.004 s

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, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgg, 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

Event List Realtime Simulation

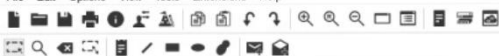
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC1	PC5	ICMP		0.000	N	0	(edit)	(delete)



Automatically Choose Connection Type

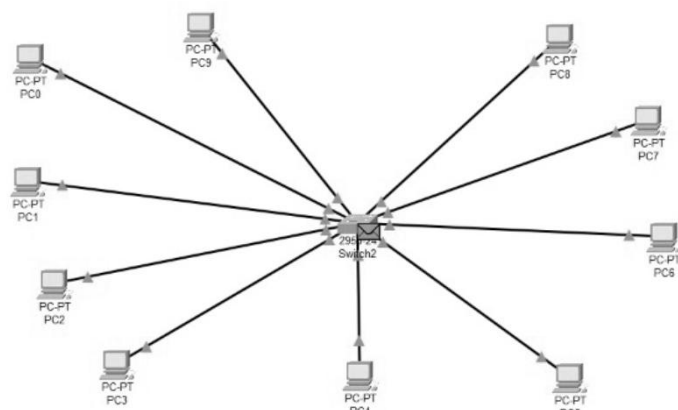
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30°C Haze 09:42 22-06-2021



Logical Physical 1413, y 513

[Root] 07:24:00



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	PC1	ICMP
	0.000	--	PC1	ARP
	0.001	PC1	Switch2	ARP

Reset Simulation Constant Delay Captured to: 0.001 s

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, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:14:12.573 PLAY CONTROLS



Automatically Choose Connection Type

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	In Progress	PC1	PC5	ICMP		0.000	N	0	(edit)	(delete)

Type here to search

30°C Haze 09:40 22-06-2021