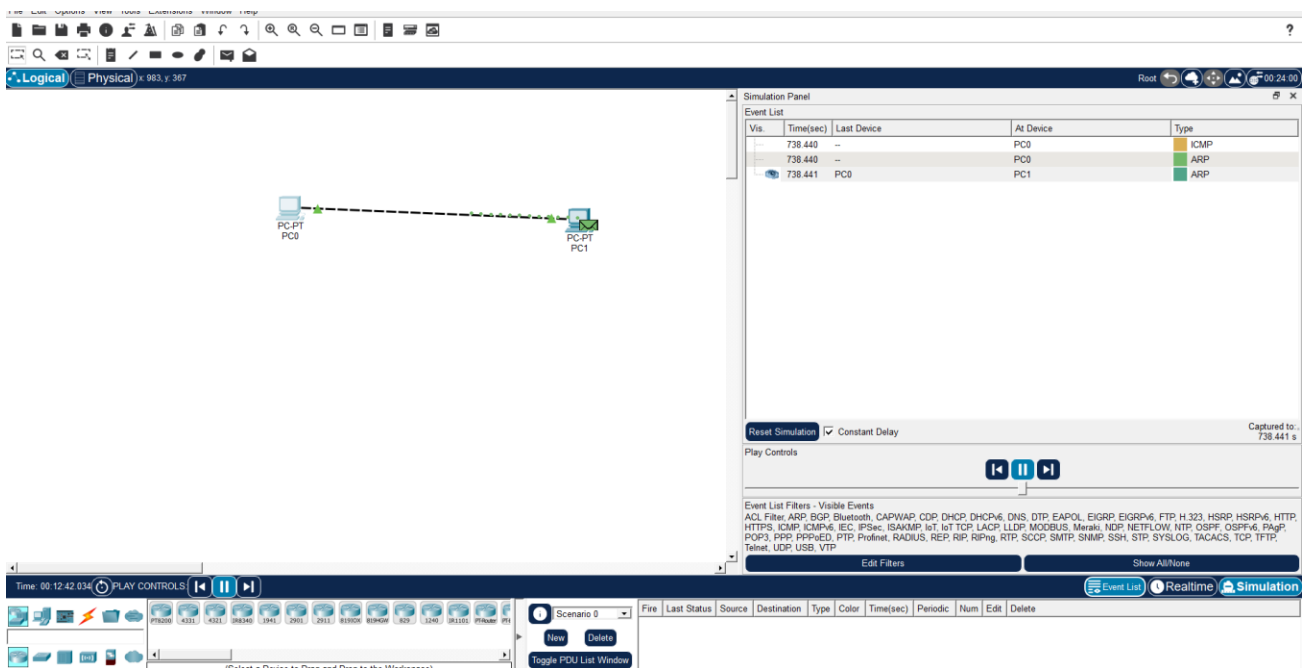
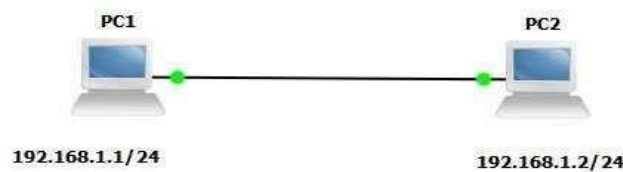


Assignment -3

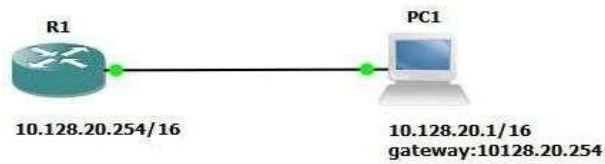
Objective: To create simple **Network Topologies Using Cisco Packet Tracer.**

Instructions: The instructor is required to discuss the following questions with the students. Students are required to make solution for each question and check connectivity using PING command.

Q1. Connect one PC with another PC as per diagram below.



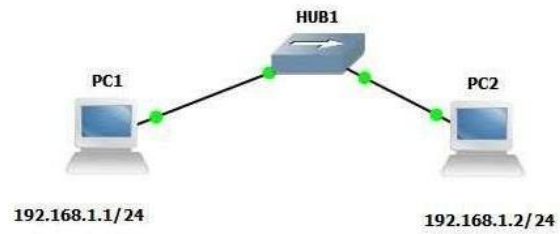
Q2. Connect a PC with Router Ethernet port as shown below.



The screenshot displays a network simulation software interface. The main workspace shows a logical connection between 'Router1' (a blue router icon) and 'PC-PT PC1' (a blue PC icon). The interface includes a top toolbar with various icons, a 'Logical' tab, and a 'Physical' tab. On the right, there is a 'Simulation Panel' with an 'Event List' table and 'Play Controls'. The 'Event List' table has columns for 'Vis.', 'Time(sec)', and 'Last Device'. The 'Play Controls' section includes buttons for 'Reset Simulation', 'Constant Delay', and 'Captured to 193.881'. At the bottom, there is a 'Scenario 0' dropdown, a 'New' button, a 'Delete' button, and a 'Toggle PDU List Window' button. The bottom status bar shows 'Time: 00:46:00.863' and 'PLAY CONTROLS'.

Vis.	Time(sec)	Last Device
13.874	--	--
13.875	--	Router1
73.876	--	--
73.877	--	Router1
133.878	--	--
133.879	--	Router1
193.881	--	--

Q3. Create a network of 2 PCs as below.



File Edit Options View Tools Extensions Window Help

Logical Physical x 1023, y 340

Simulation Panel

Vis	Time(sec)	Last Device	At Device	Type
	737.452	-	PC0	ICMP
	737.452	PC0	Hub0	ARP
	737.453	PC0	Hub0	ARP
	737.454	Hub0	PC1	ARP
	737.455	PC1	Hub0	ARP

Reset Simulation ☒ Constant Delay Captured to: 737.455 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, IEC, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, MDIOBUS, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, PAgPv6, PPP, PPPoE, PTP, Protocol, RADIUS, REP, RRP, RRPv6, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

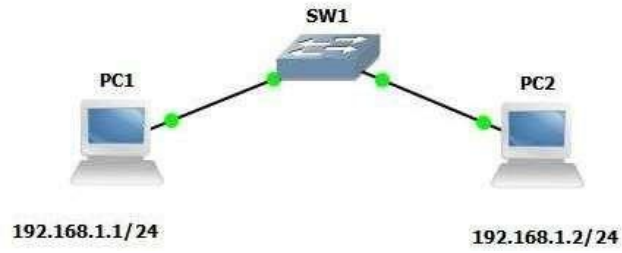
Time: 00:12:39.039 PLAY CONTROLS

Scenario 0

Toggle PDU List Window

(Select a Device to Drag and Drop to the Workspace)

Q4. Connect 2 PCs with a Switch below.



Cisco Packet Tracer - C:\Users\kcs\Desktop\ques 4.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x 1160 y 377

Simulation Panel

Vis.	Time(sec)	Last Device	At Device	Type
	0.956	--	Switch0	STP
	0.957	Switch0	PC1	STP
	0.957	Switch0	PC0	STP
	2.954	--	Switch0	STP

Reset Simulation Constant Delay Captured to: 2.954 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, IEC, IPSec, ISAMMP, Iot, Iot Top, LACP, LLDP, MOOBUS, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PayP, POP3, PPP, PPPoE, PTP, Profinet, RADIUS, REP, RIP, RIPv2, RIPv3, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Scenario 0

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

New Delete Toggle PDU List Window

(Select a Device to Drag and Drop to the Workspace)

Q5. Create BUS topologies as below.



(a)

Cisco Packet Tracer - C:\Users\kcs\Desktop\ques 5.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x: 1547, y: 273

Vis	Time(sec)	Last Device	At Device	Type
	0.963		Switch1	STP
	0.964	Switch1	PC0	STP
	0.964	Switch1	PC1	STP
	0.964	Switch1	PC2	STP
	0.964	Switch1	PC3	STP
	0.964	Switch1	PC4	STP
	0.964	Switch1	PC5	STP
	0.964	Switch1	PC6	STP
	0.964	Switch1	PC7	STP

Reset Simulation Constant Delay Captured to: 0.964 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, IEC, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, MODBUS, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, RAPI, POP3, PPP, PPPoE, PTP, Protocol, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

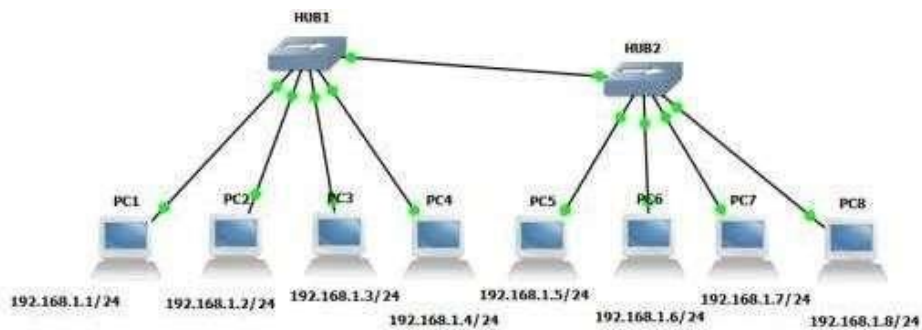
Scenario 0

New Delete

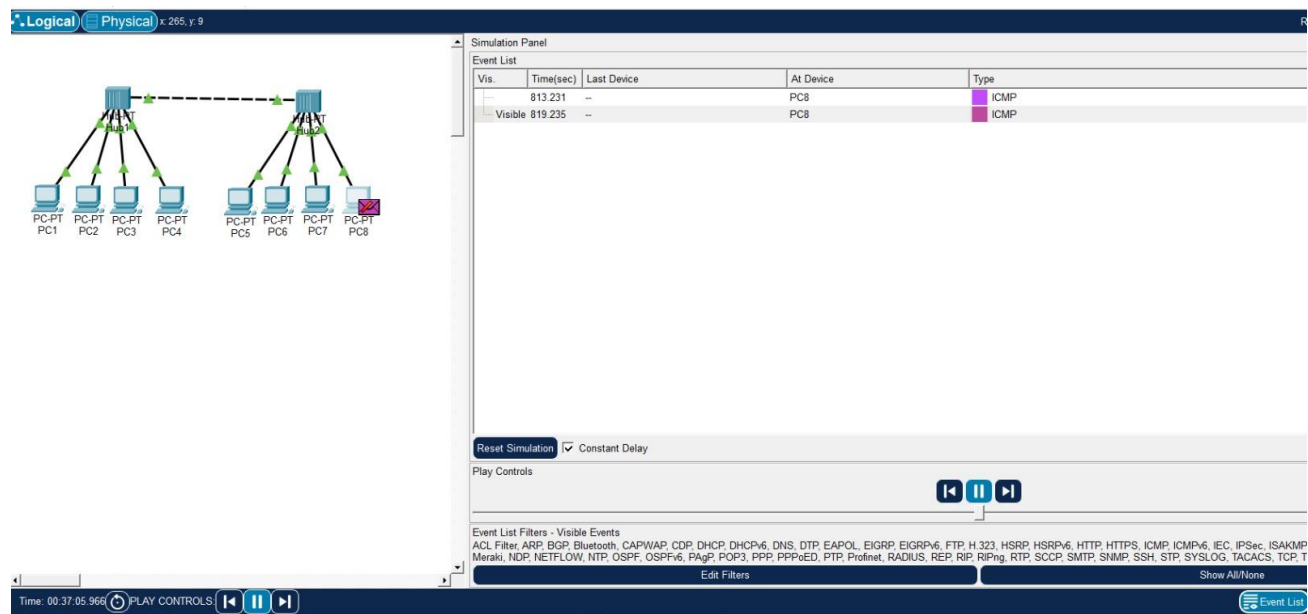
Toggle PDU List Window

Time: 00:00:16.521 PLAY CONTROLS

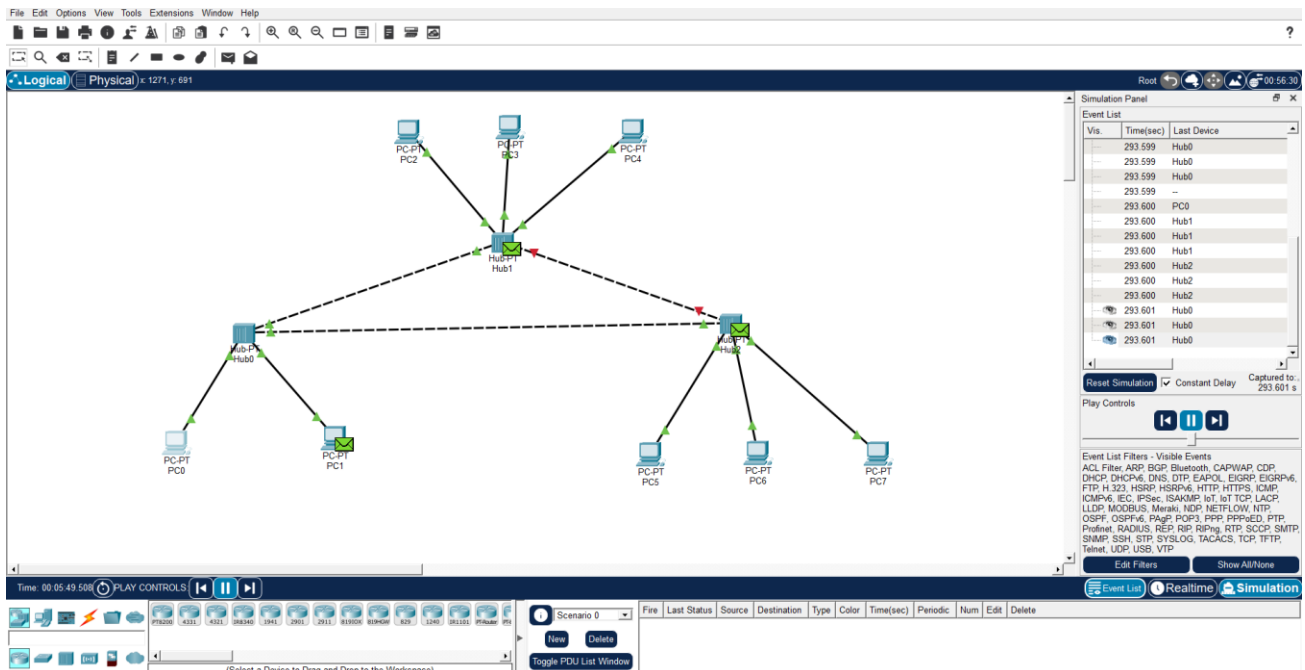
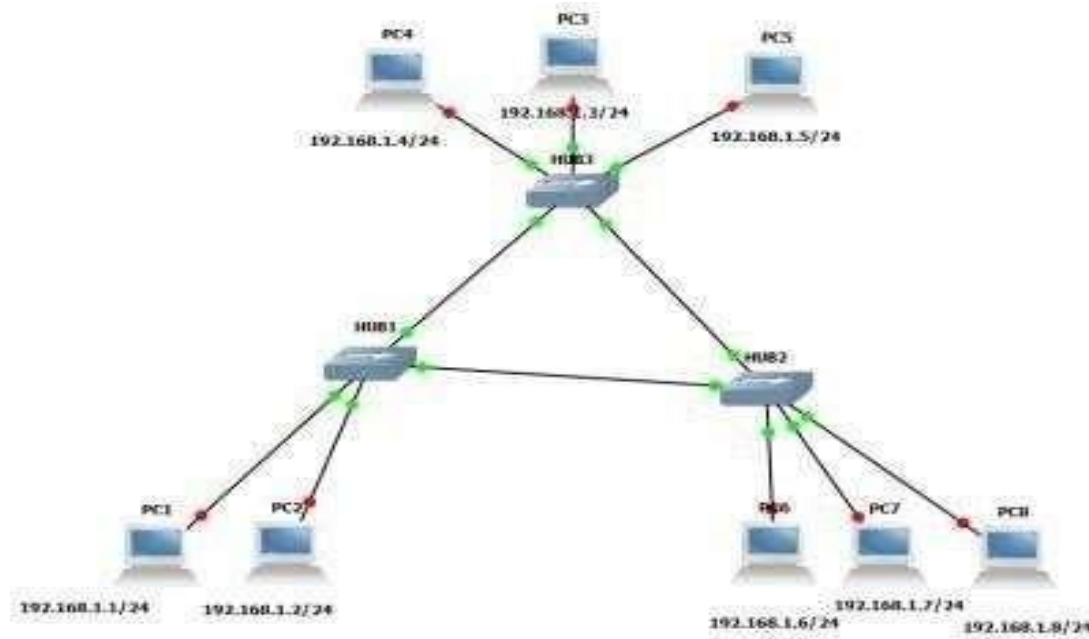
(Select a Device to Drag and Drop to the Workspace)



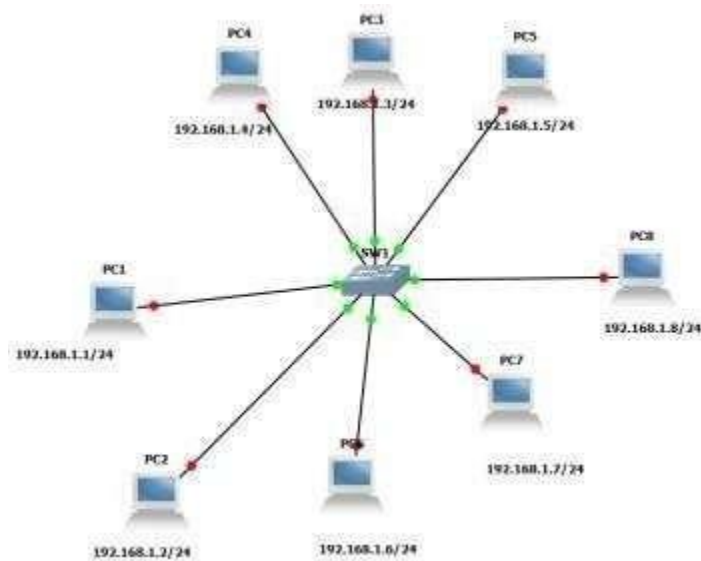
(b)



Q6. Create the following Ring Topology.



Q7. Create the following Ring Topology.



Cisco Packet Tracer - C:\Users\kcs\Desktop\ques 7.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x 1554 y 206

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
1	3.969	Switch0	PC7	STP
2	3.966	Switch0	Switch0	STP
3	3.967	Switch0	PC2	STP
4	3.967	Switch0	PC8	STP
5	3.967	Switch0	PC1	STP
6	3.967	Switch0	PC5	STP
7	3.967	Switch0	PC6	STP
8	3.967	Switch0	PC3	STP
9	3.967	Switch0	PC4	STP
10	3.967	Switch0	PC7	STP
11	5.969	Switch0	Switch0	STP
12	5.969	Switch0	PC2	STP
13	5.969	Switch0	PC8	STP
14	5.969	Switch0	PC1	STP
15	5.969	Switch0	PC5	STP
16	5.969	Switch0	PC6	STP
17	5.969	Switch0	PC3	STP
18	5.969	Switch0	PC4	STP
19	5.969	Switch0	PC7	STP

Reset Simulation Constant Delay Capturing...

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, IEC, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, MODBUS, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PaqP, POP3, PPP, PPPoE, PTP, Profinet, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 00:00:20.513 PLAY CONTROLS

Scenario 0

New Delete

Toggle POI List Window

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

Event List Realtime Simulation

Q8. Create the following Tree Topology.

