

Name: SK Sameer Pasha

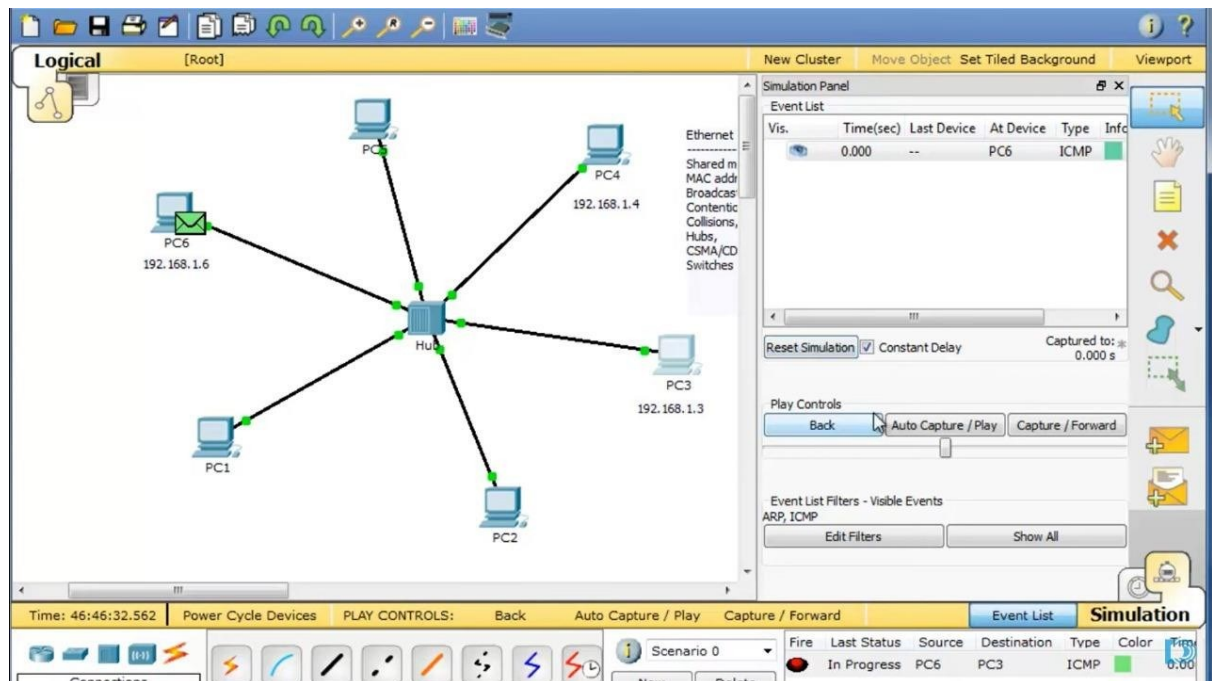
Reg No: 192425383

Course Name: Computer Networks for cloud storage

Code: CSA-0713

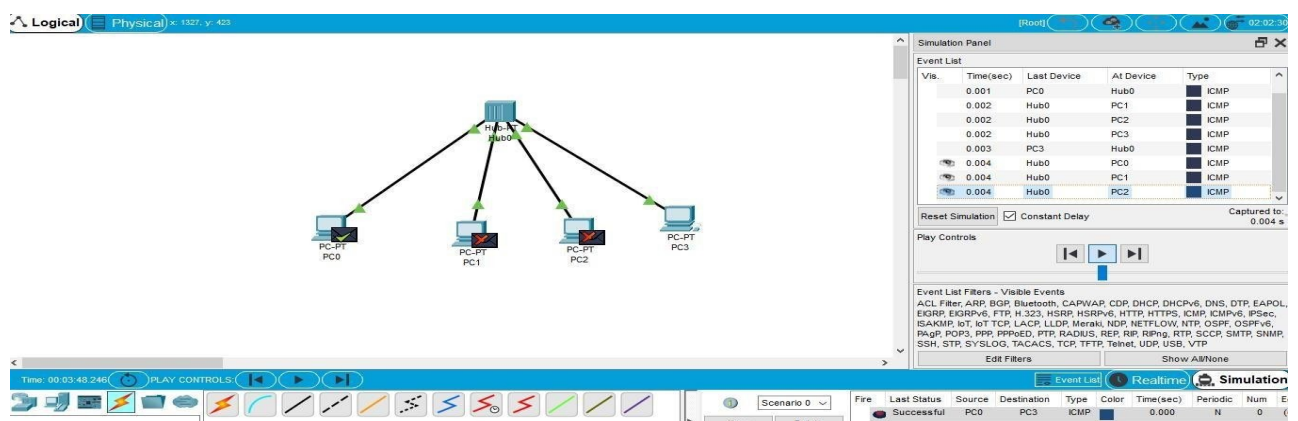
Lab Experiments: 1-35

1. Configuration of Network Devices using Packet Tracer tools (Hub, Switch, Ethernet, Broadcast)

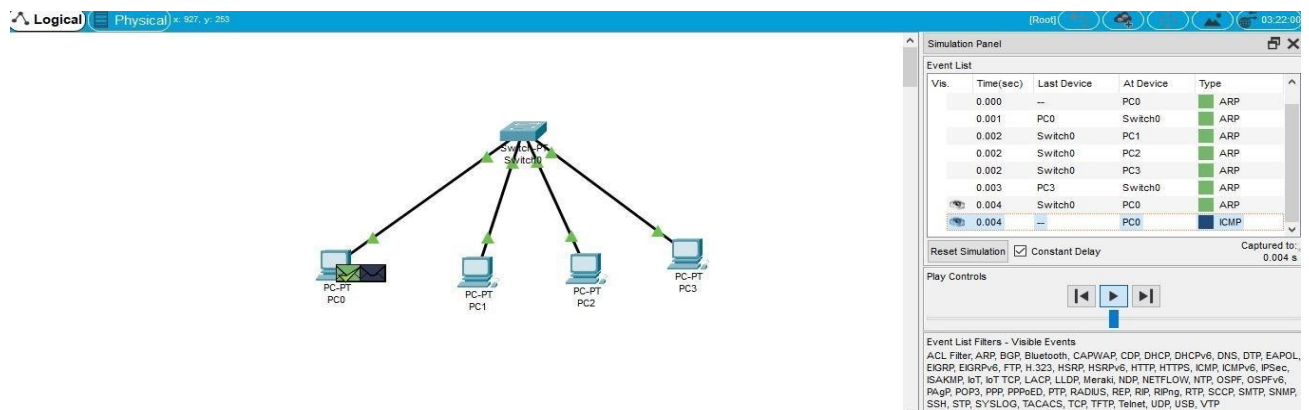


2. Design and Configuration of Star Topologies using Packet Tracer Star

Topology using Hub:

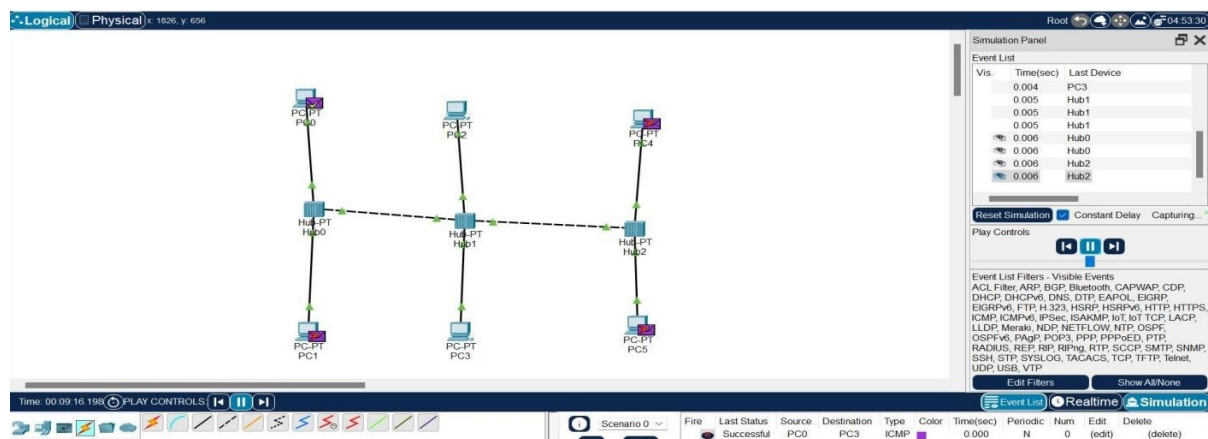


Star Topology using Switch:

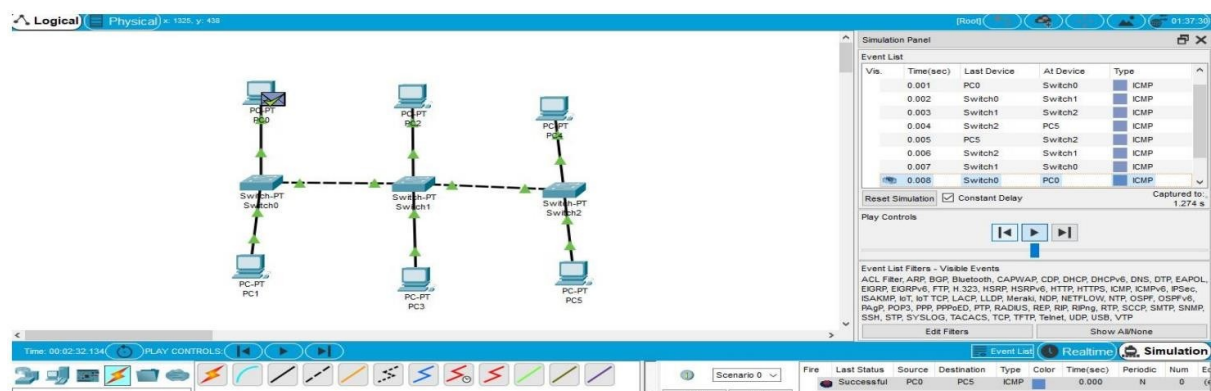


3. Design and Configuration of BUS Topologies using Packet Tracer.

Bus Topology using Hub:

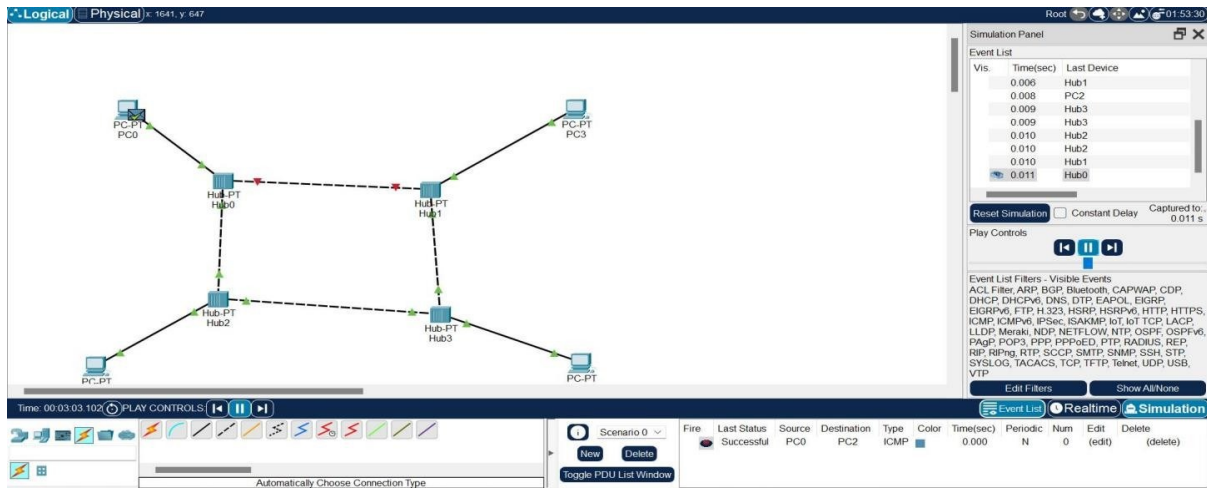


Bus Topology using Switch:

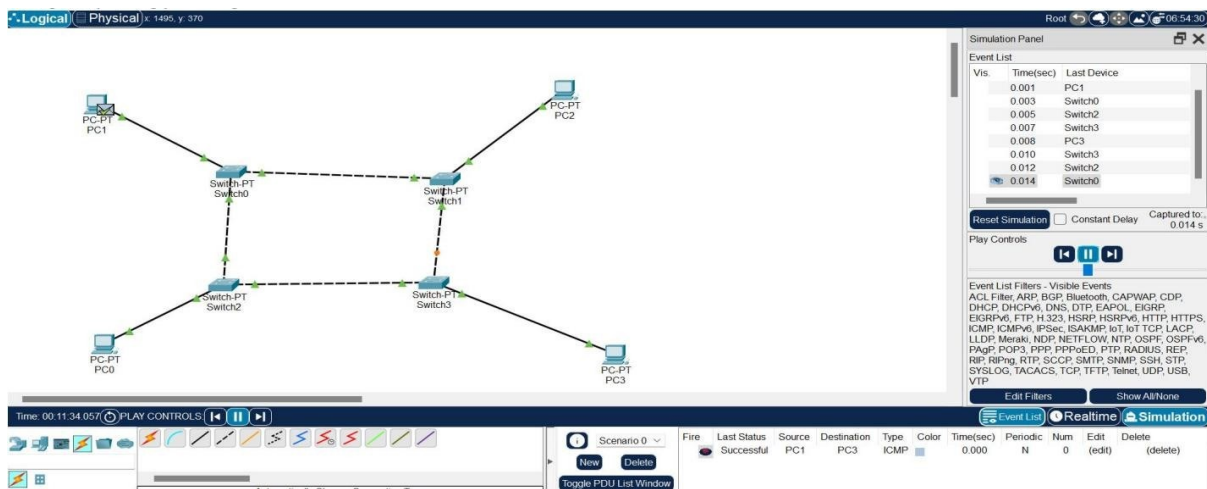


4. Design and Configuration of RING Topologies using Packet Tracer

Ring Topology using Hub:

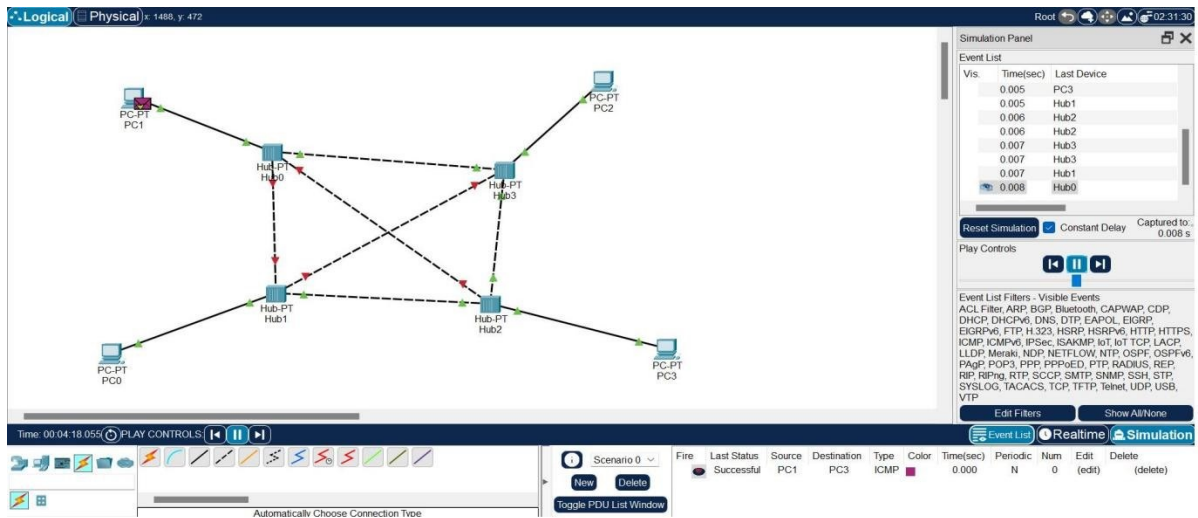


Ring Topology using Switch:

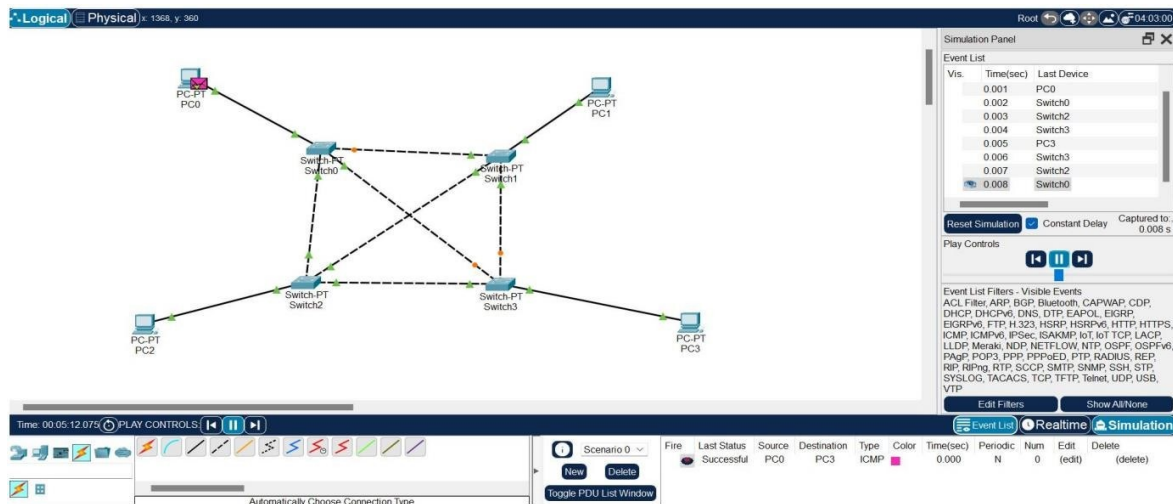


5. Design and Configuration of Mesh Topologies using Packet Tracer

Mesh Topology using Hub:

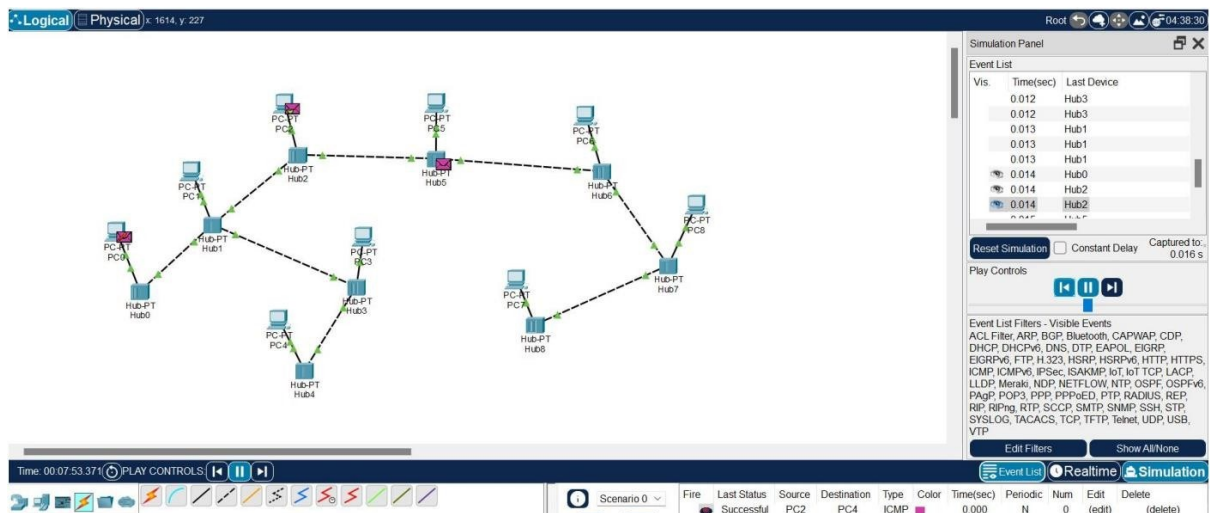


Mesh Topology using Switch:

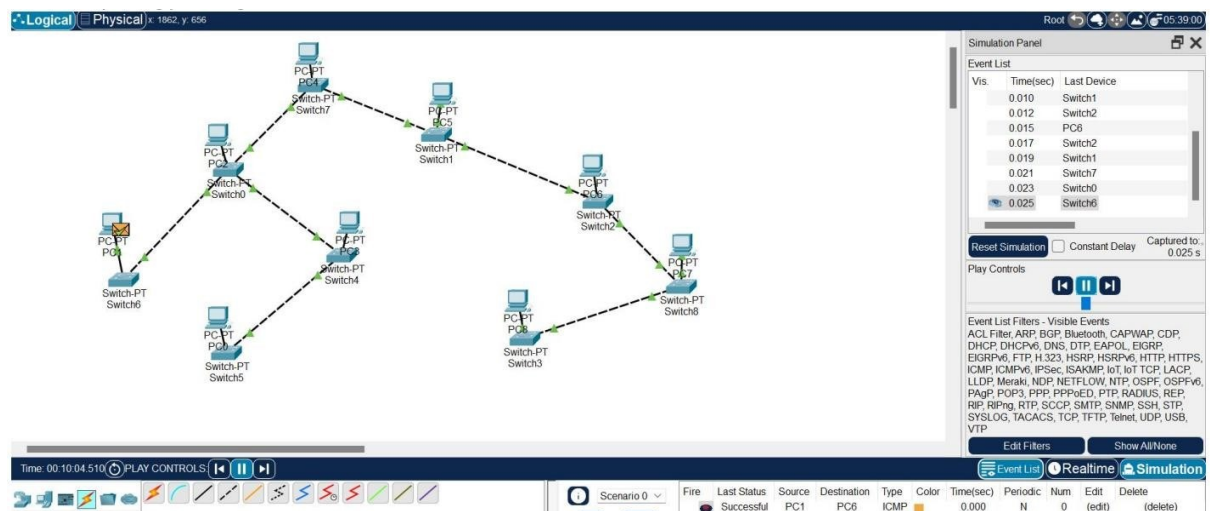


6.Design and Configuration of Tree Topologies using Packet Tracer.

Tree Topology using Hub:

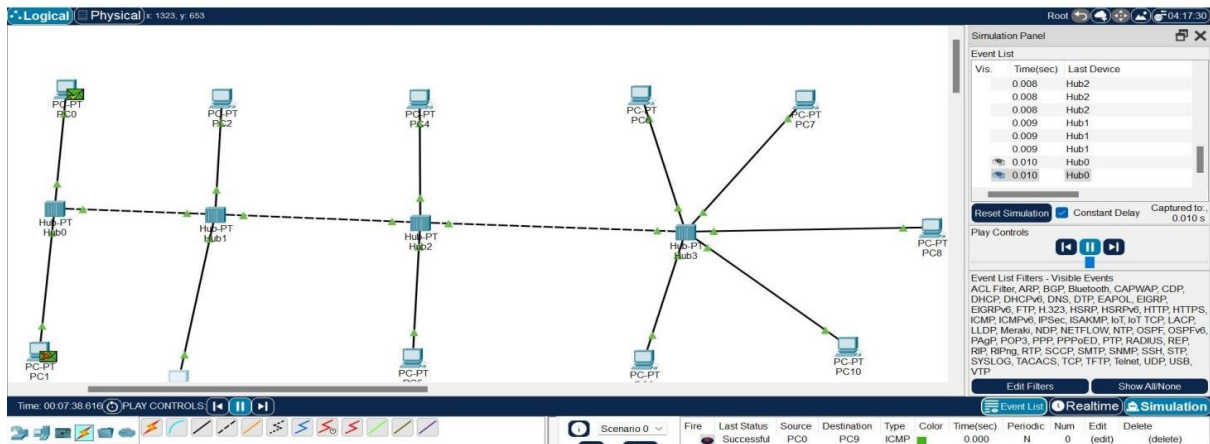


Tree Topology using Switch:

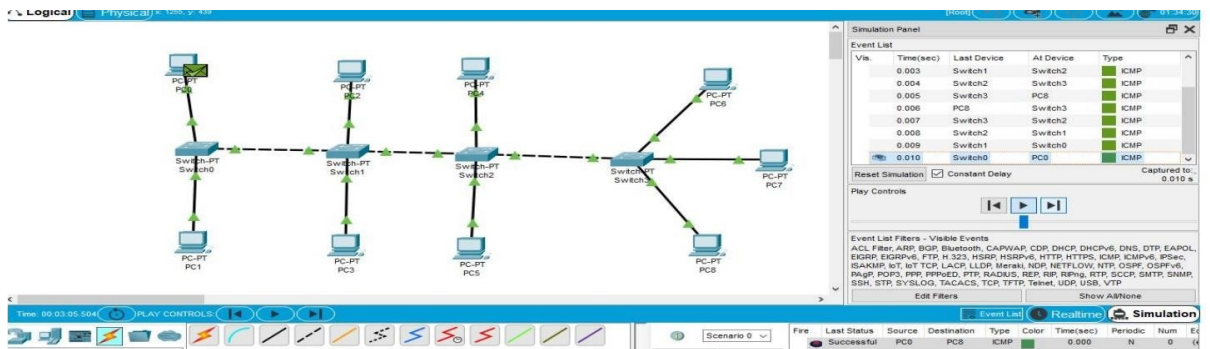


6. Design and Configuration of Hybrid Topologies using Packet Tracer

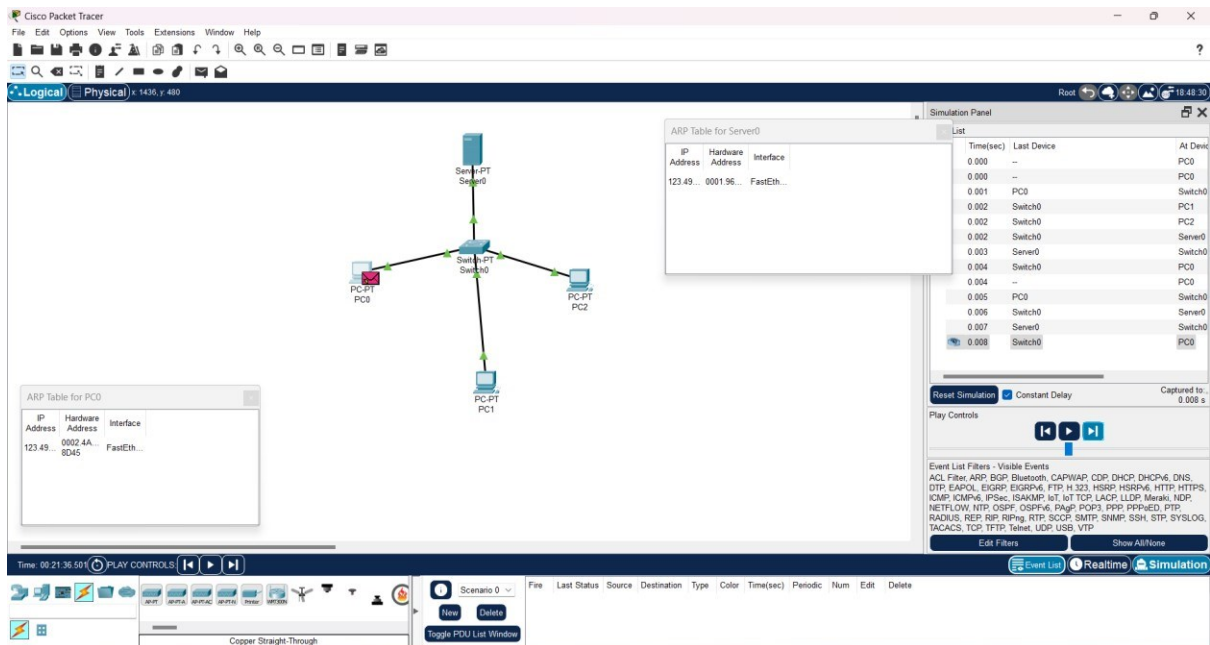
Hybrid Topology using Hub:



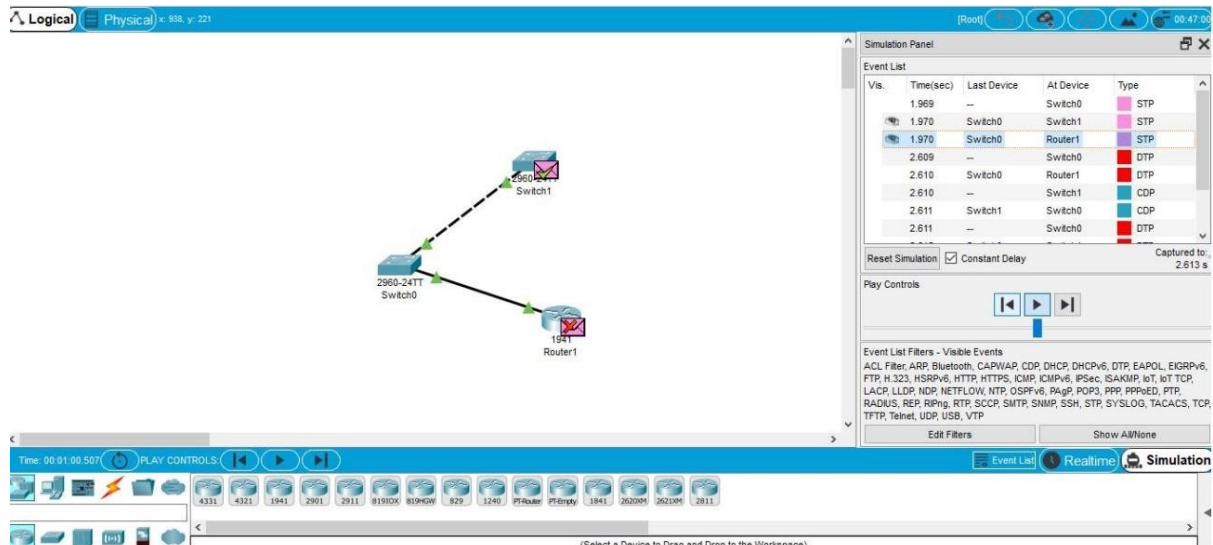
Hybrid Topology using Switch:



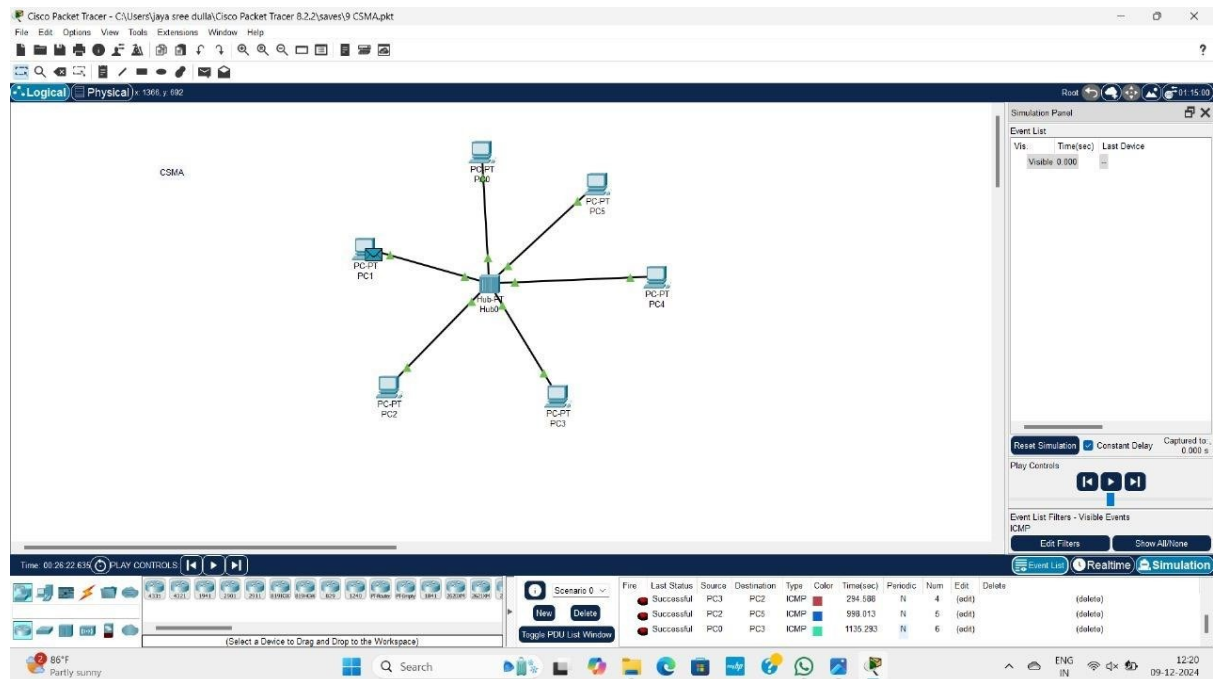
7. Data Link Layer Traffic Simulation using Packet Tracer Analysis of ARP



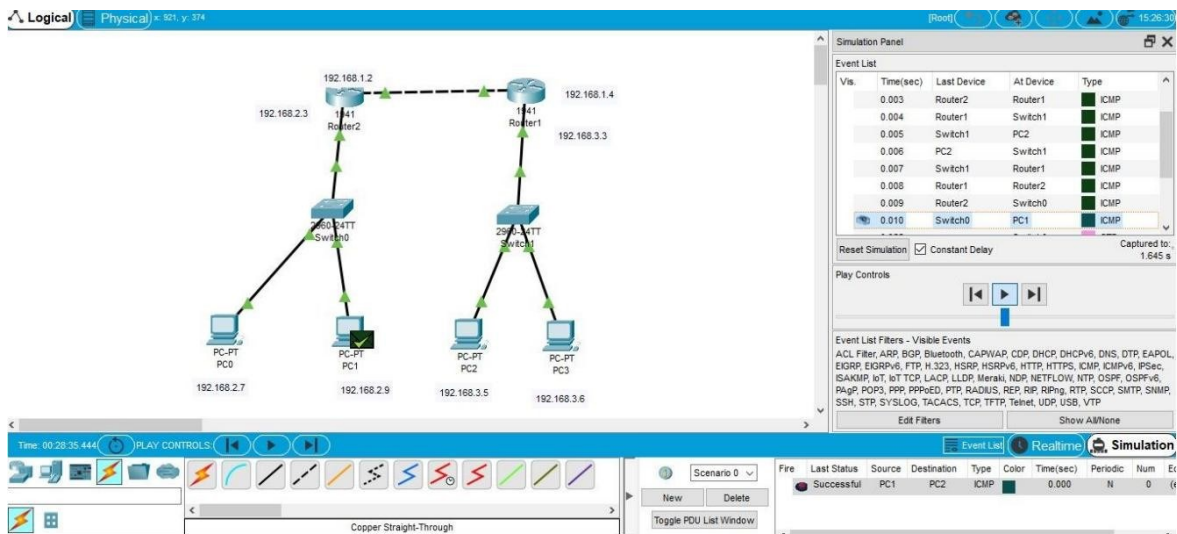
8. Data Link Layer Traffic Simulation using Packet Tracer Analysis of LLDP



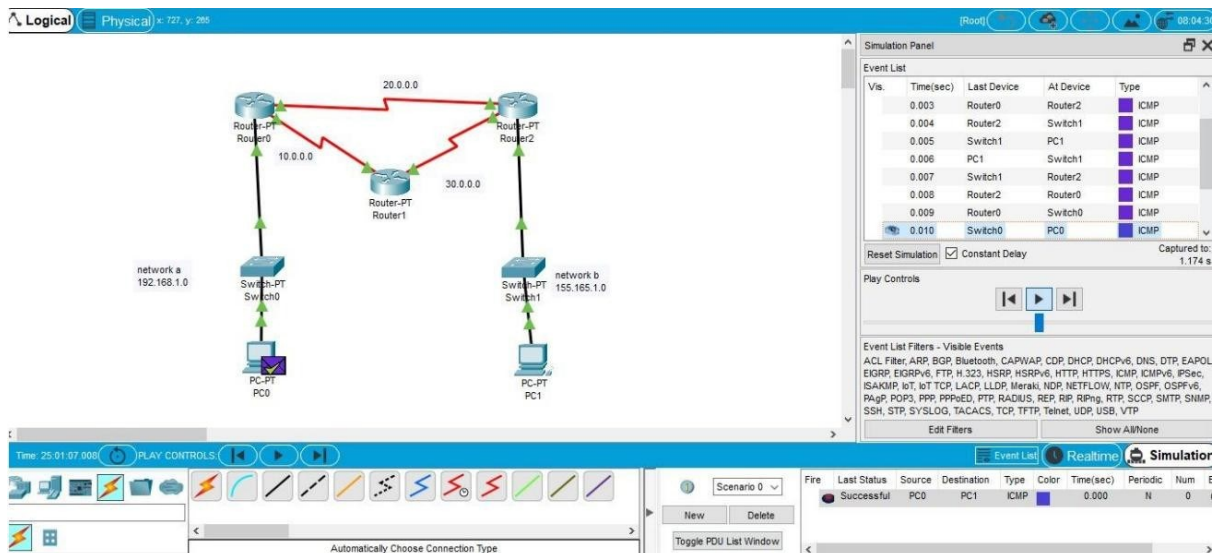
9. Data Link Layer Traffic Simulation using Packet Tracer Analysis of CSMA/CD & CSMA/CA



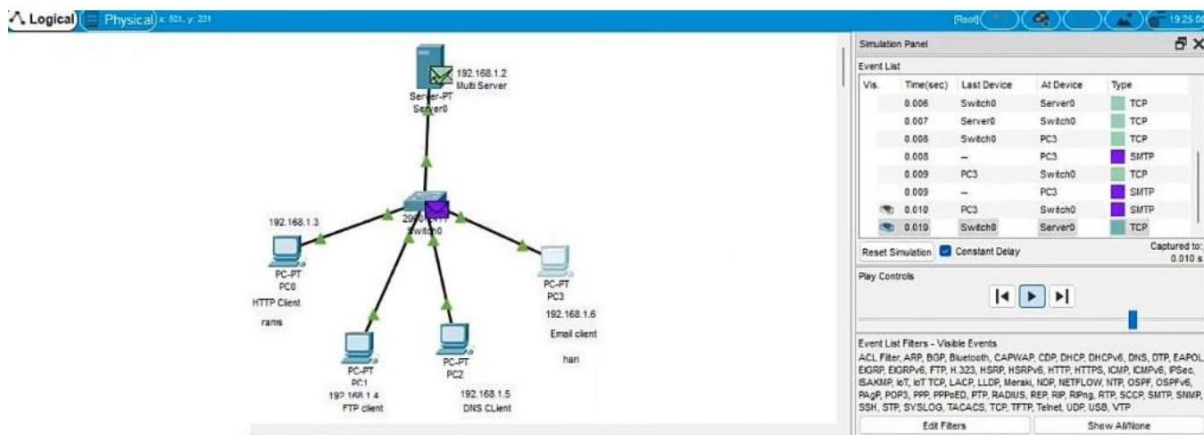
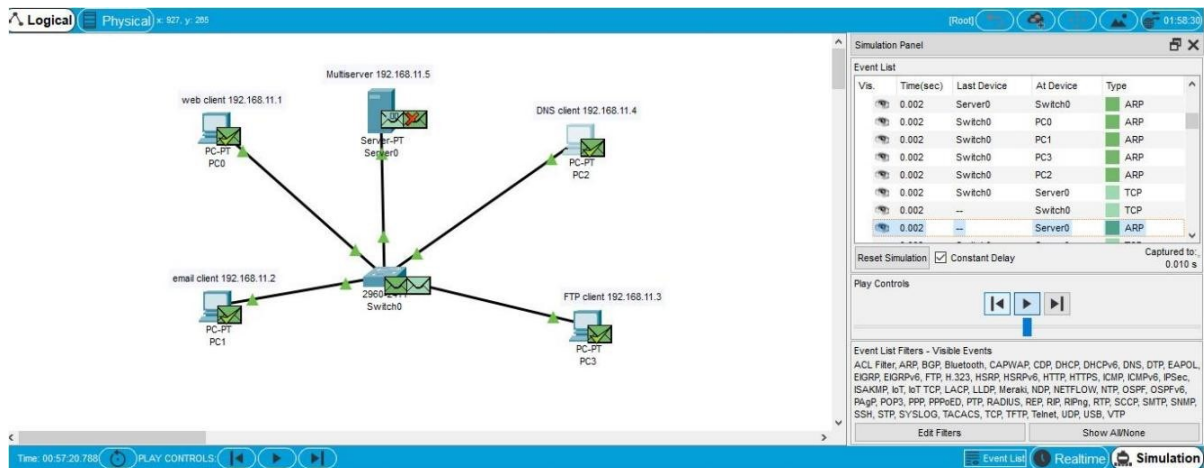
11. Designing two different networks with Static Routing techniques using Packet Tracer.



12. Designing two different networks with Dynamic Routing techniques (RIP & OSPF) using Packet Tracer



13.Design the Functionalities and Exploration of TCP using Packet Tracer



14.Design the Functionalities and Exploration of UDP using Packet Tracer.

The top screenshot shows a network topology in Cisco Packet Tracer. A central switch (2960-24TT Switch0) is connected to a Multiserver (192.168.11.5), a web client (192.168.11.1), a DNS client (192.168.11.4), an email client (192.168.11.2), and an FTP client (192.168.11.3). A 'MAIL BROWSER' window is open, showing an email from packet@gmail.com. The bottom screenshot shows a different network topology. A central switch (2960-24TT Switch0) is connected to a Server-PT (192.168.1.2), a web client (192.168.1.3), a DNS client (192.168.1.5), an email client (192.168.1.6), and an FTP client (192.168.1.4). A 'Simulation Panel' window is open, showing a list of events.

Vis.	Time(sec)	Last Device	At Device	Type
0.006	Switch0	Server0	TCP	
0.007	Server0	Switch0	TCP	
0.008	Switch0	PC3	TCP	
0.008	PC3	Switch0	SMTP	
0.009	PC3	Switch0	TCP	
0.009	PC3	Switch0	SMTP	
0.010	PC3	Switch0	TCP	
0.010	Switch0	Server0	TCP	

11. Design the network model for Subnetting – Class C Addressing using Packet Tracer.

The screenshot shows a network topology in Cisco Packet Tracer. A central router (2911 Router0) is connected to two switches (2960-24TT Switch0 and 2960-24TT Switch1). Each switch is connected to three PCs. The network address is 192.168.10.0 /25. A 'Simulation Panel' window is open, showing a list of events.

Vis.	Time(sec)	Last Device	At Device	Type
0.001	PC0	Switch0	ICMP	
0.002	Switch0	Router0	ICMP	
0.003	Router0	Switch1	ICMP	
0.004	Switch1	PC5	ICMP	
0.005	PC5	Switch1	ICMP	
0.006	Switch1	Router0	ICMP	
0.007	Router0	Switch0	ICMP	
0.008	Switch0	PC0	ICMP	