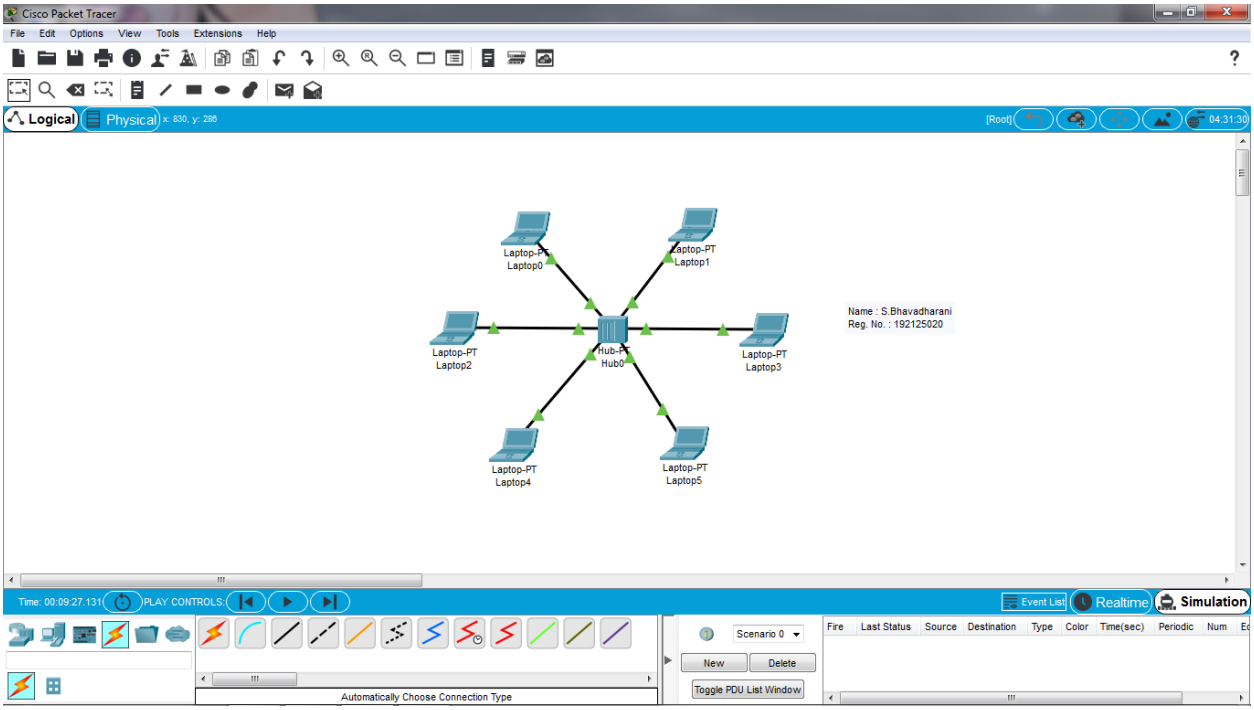
COMPUTER NETWORKS PRACTICALS

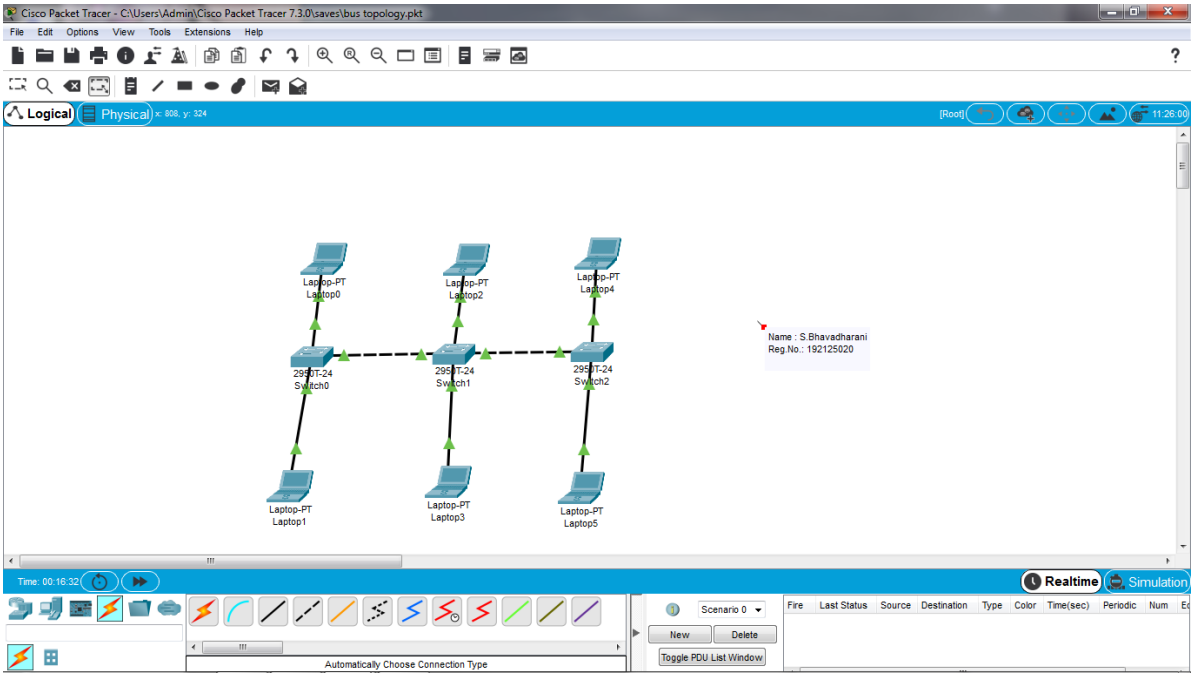
Name: S.Bhavadharani
Reg.No.: 192125020
Department: B.Tech AI and ML
Course code : CSA0730
Course name: computer networks for media gateway control protocol
Faculty Name: Dr.R. Thandaiah Prabhu

EXPERIMENT 1: Configuration of Network Devices using Packet Tracer (Hub, Switch, Ethernet, Broadcast)

HUB

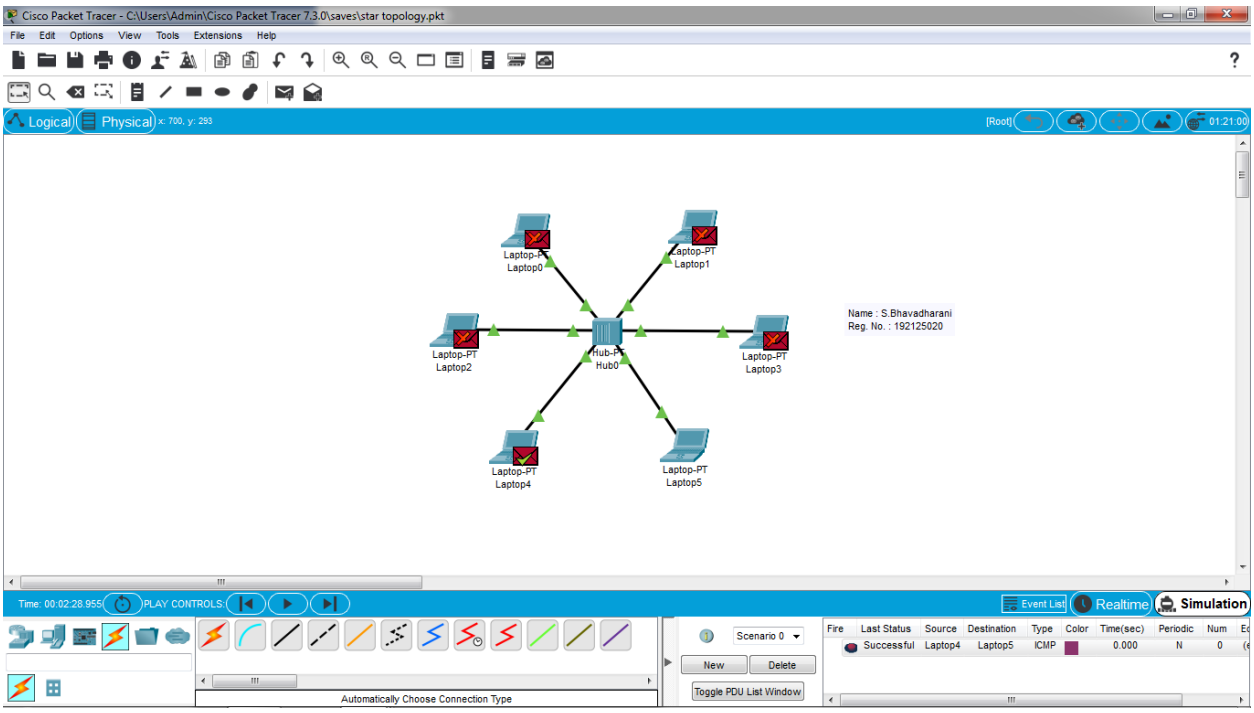


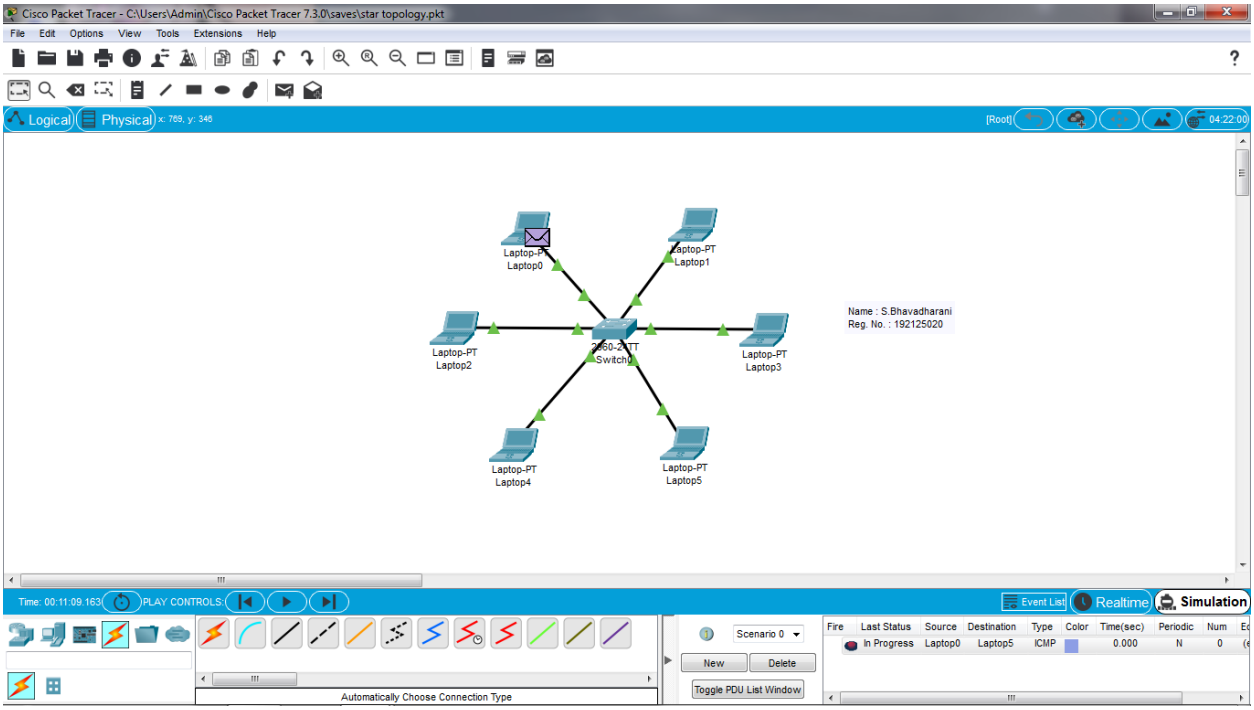
ETHERNET


Cisco Packet Tracer - C:\Users\Admin\Cisco Packet Tracer 7.3.0\saves\bus topology.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
Laptop-PT Laptop0
Laptop-PT Laptop2
Laptop-PT Laptop4
2950T-24 Switch0
2950T-24 Switch1
2950T-24 Switch2
Laptop-PT Laptop1
Laptop-PT Laptop3
Laptop-PT Laptop5
Name : S.Bhavadharani
Reg.No.: 192125020
Realtime
Simulation
Automatically Choose Connection Type
Scenario 0
New
Delete
Toggle PDU List Window

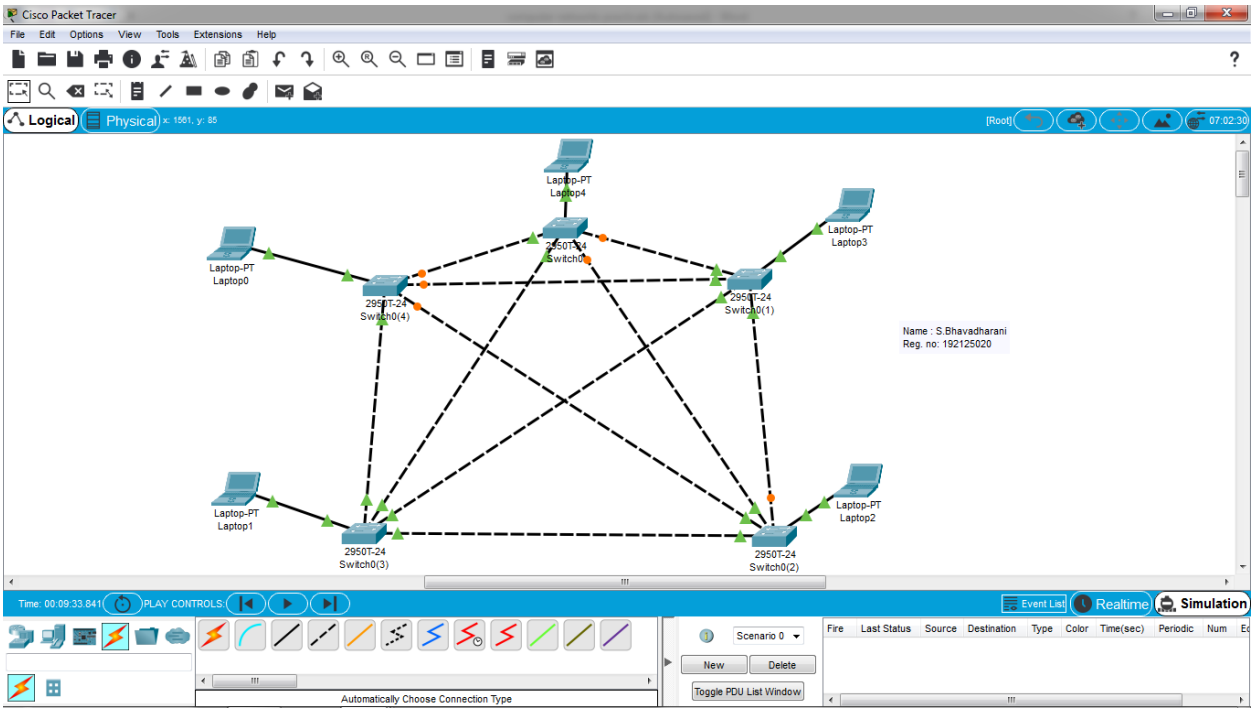
EXPERIMENT 2: Configuration of Topologies using Packet Tracer (Star, Mesh, Tree,)

STAR TOPOLOGY:

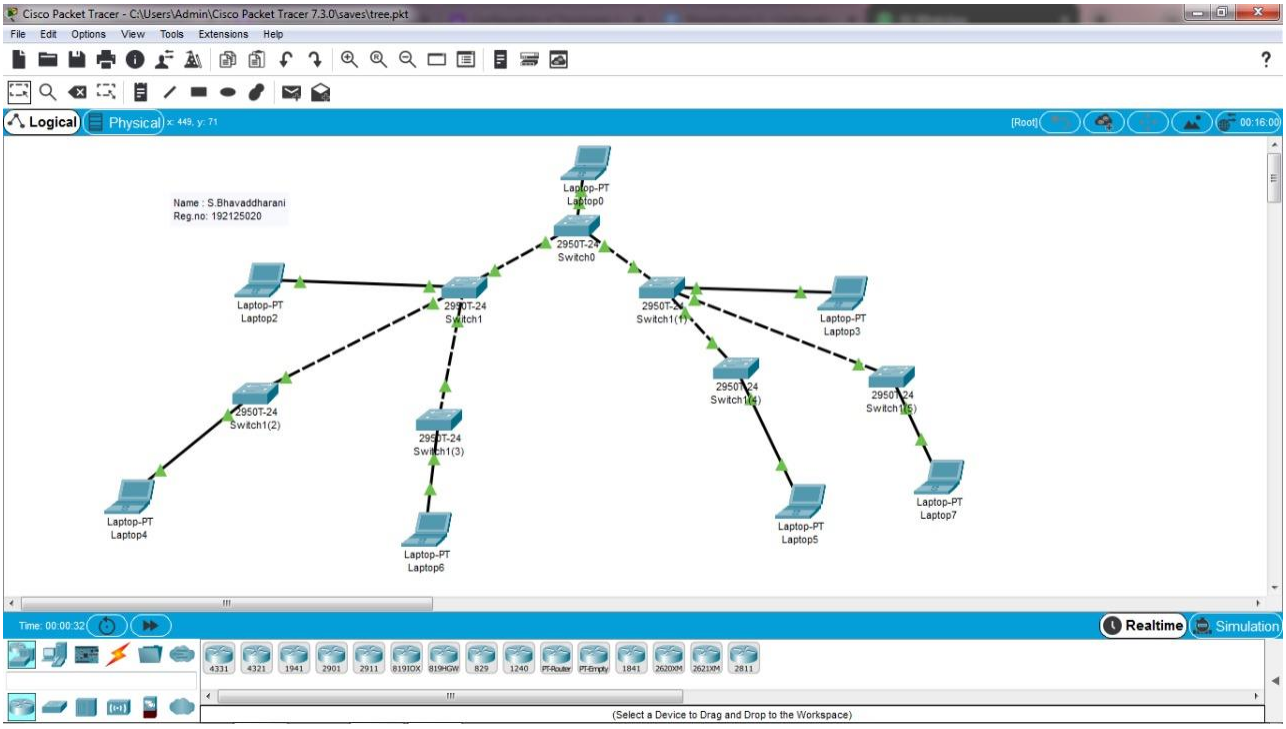




MESH TOPOLOGY:

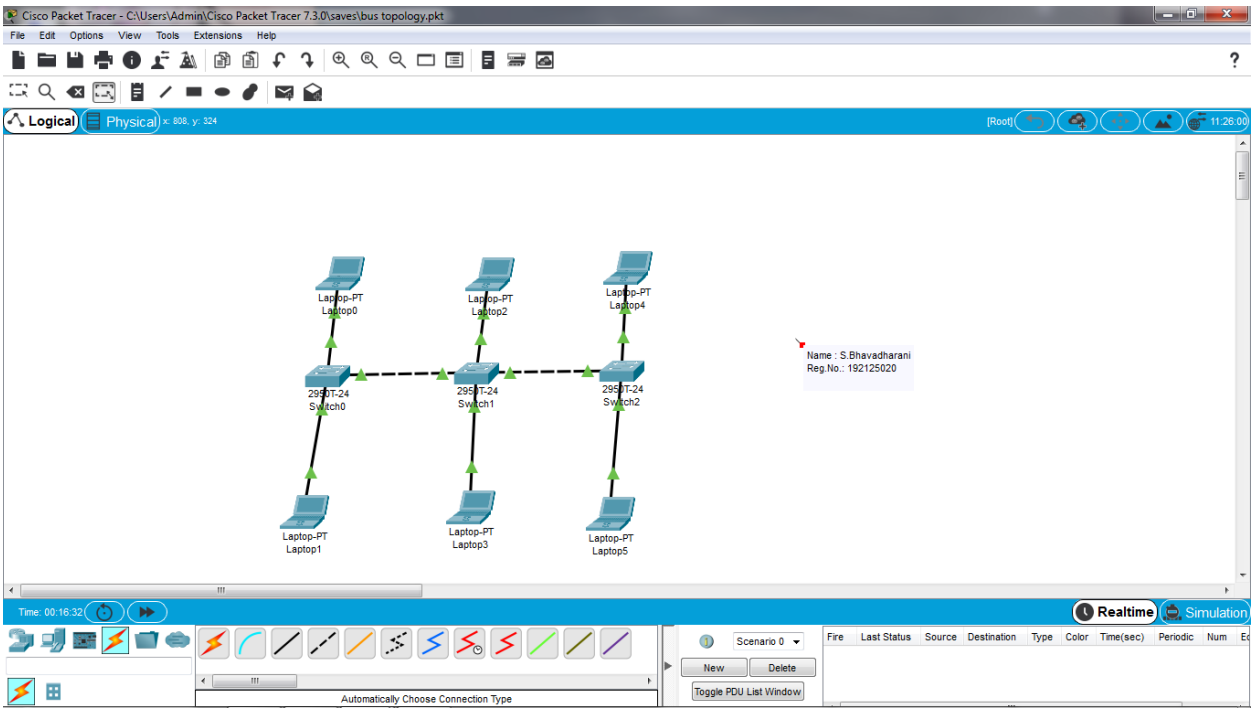


TREE TOPOLOGY:

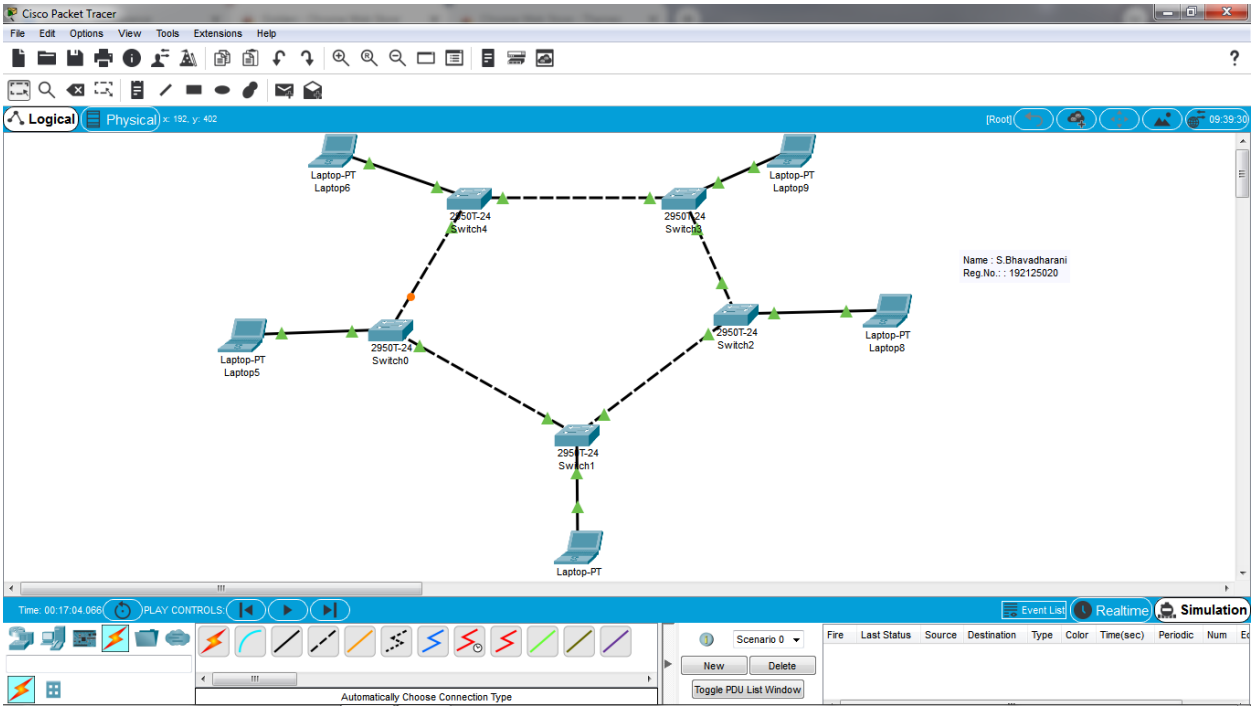


EXPERIMENT 3: Configuration of Topologies using Packet Tracer (Bus, Ring, Hybrid)

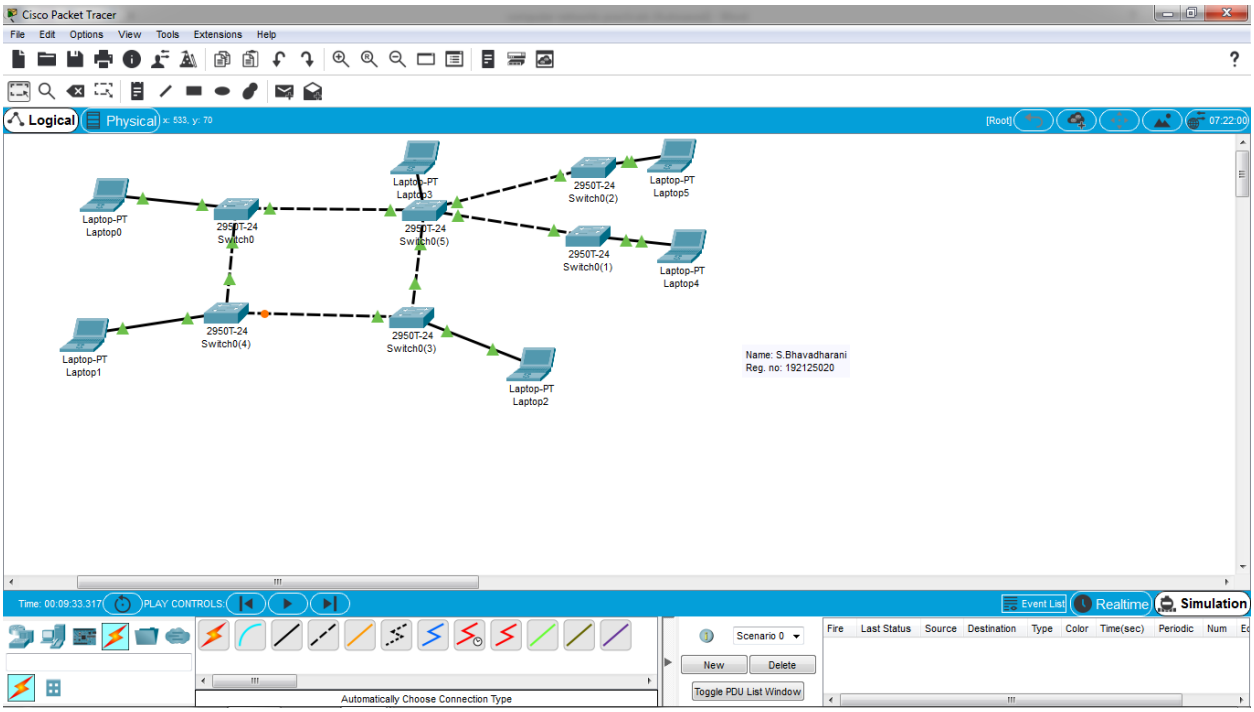
BUS TOPOLOGY:



RING TOPOLOGY:

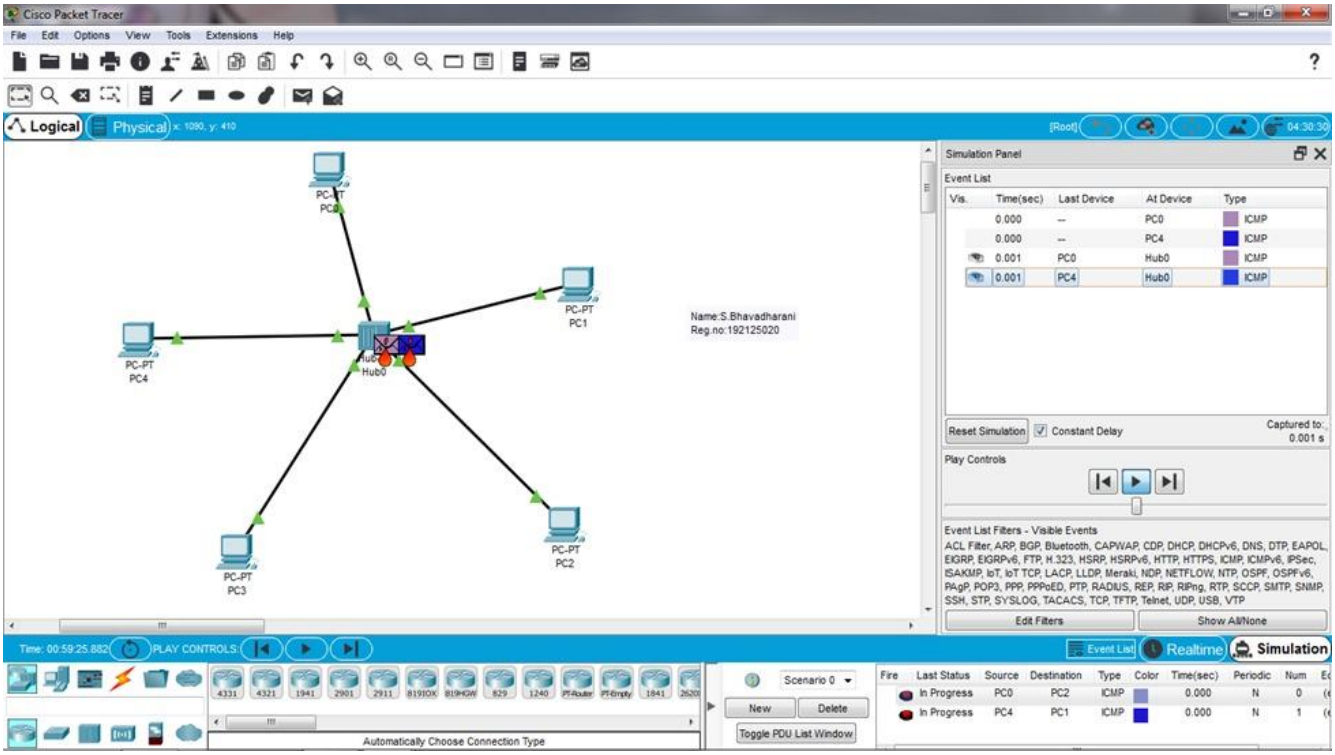


HYBRID TOPOLOGY:



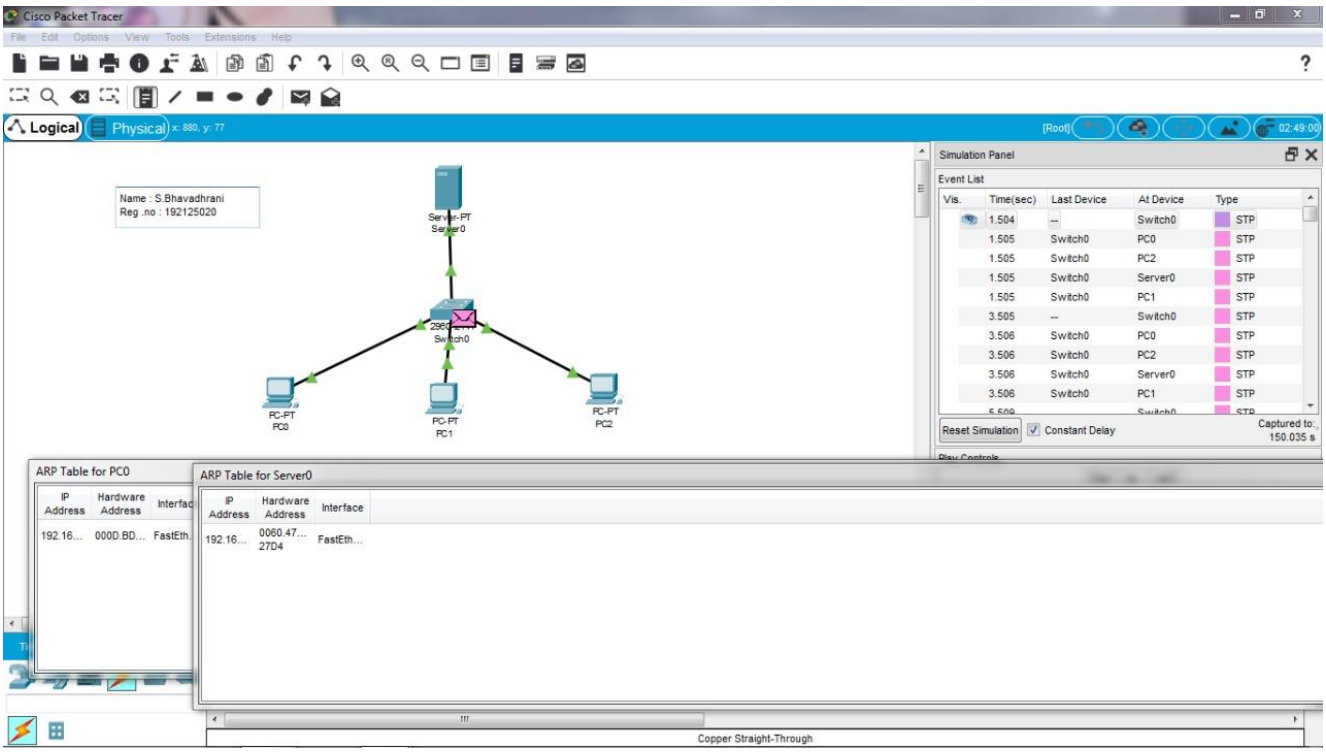
EXPERIMENT 4: Data Link Layer Traffic Simulation using Packet Tracer Analysis of CSMA/CD& CSMA/CA

CSMA



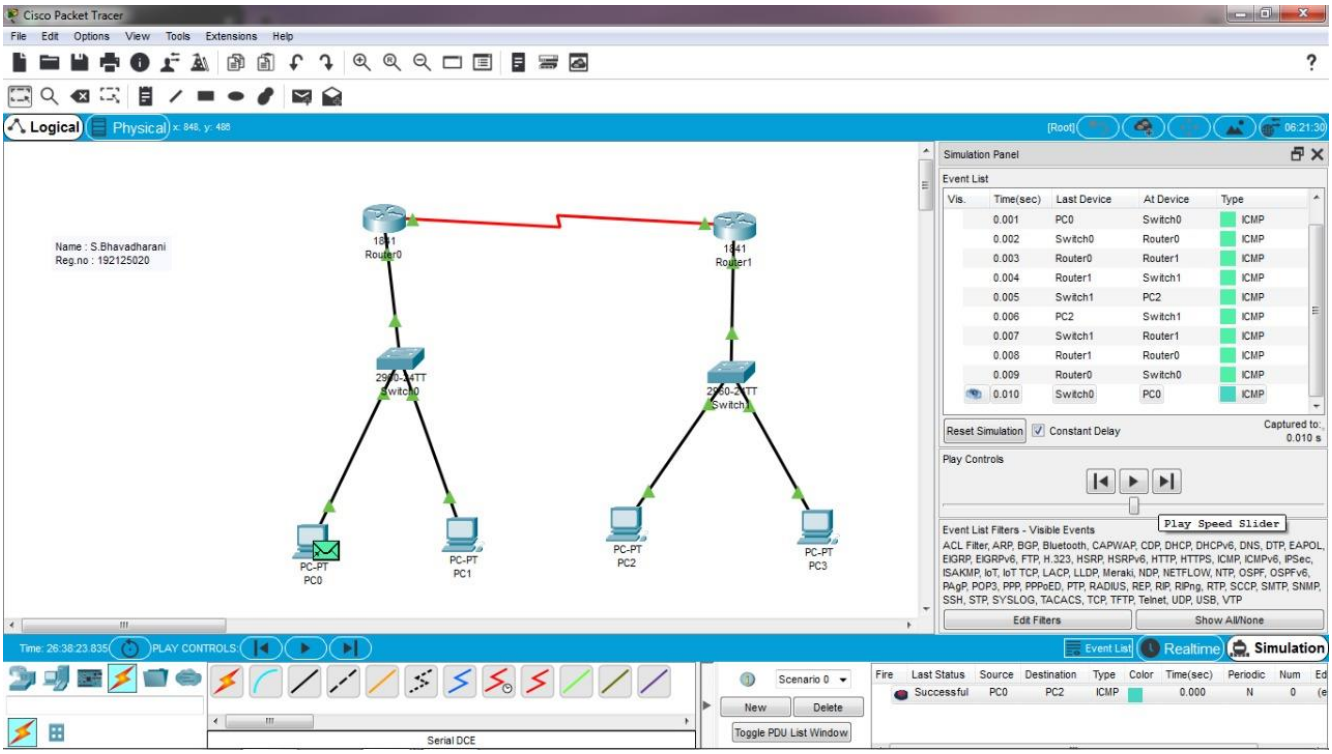
EXPERIMENT 5: Data Link Layer Traffic Simulation using Packet Tracer Analysis of ARP

ARP



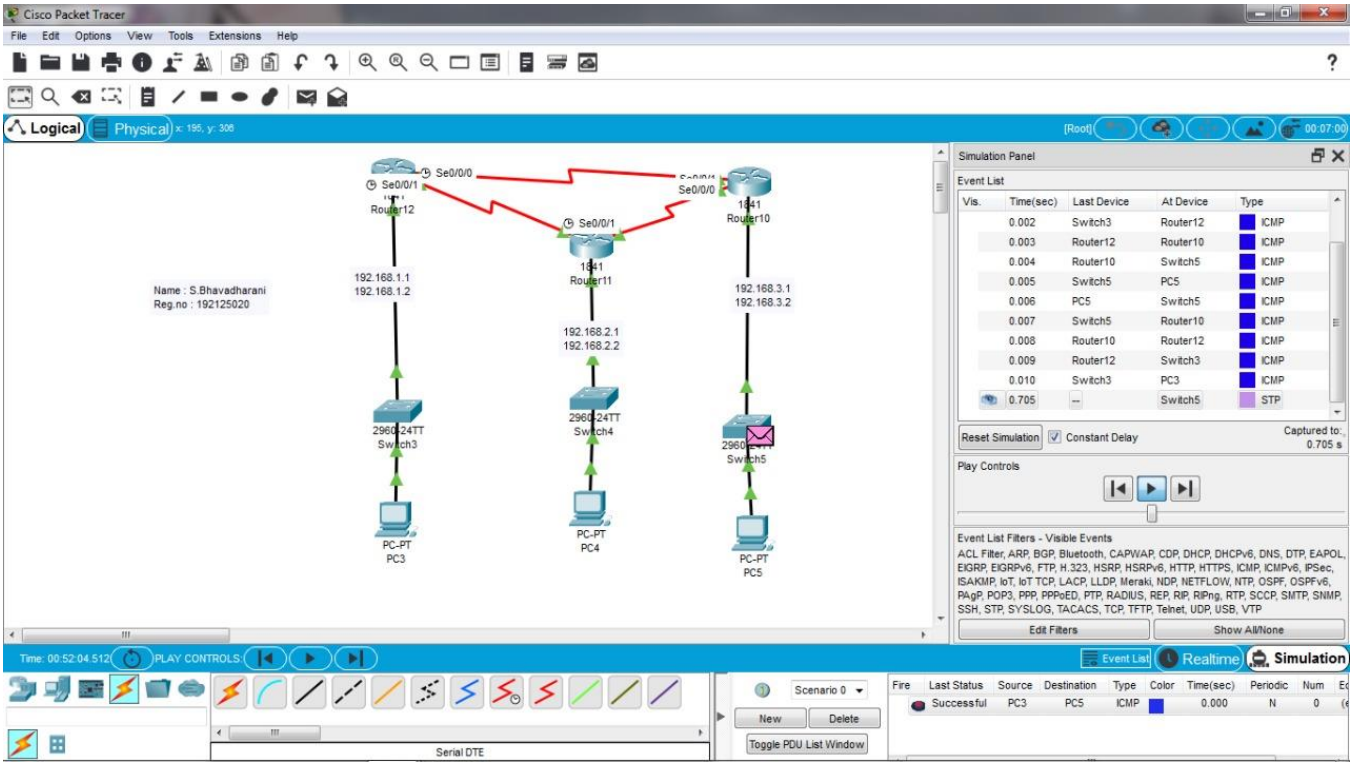
EXPERIMENT 6: Static Routing using Packet Tracer

STATIC ROUTING



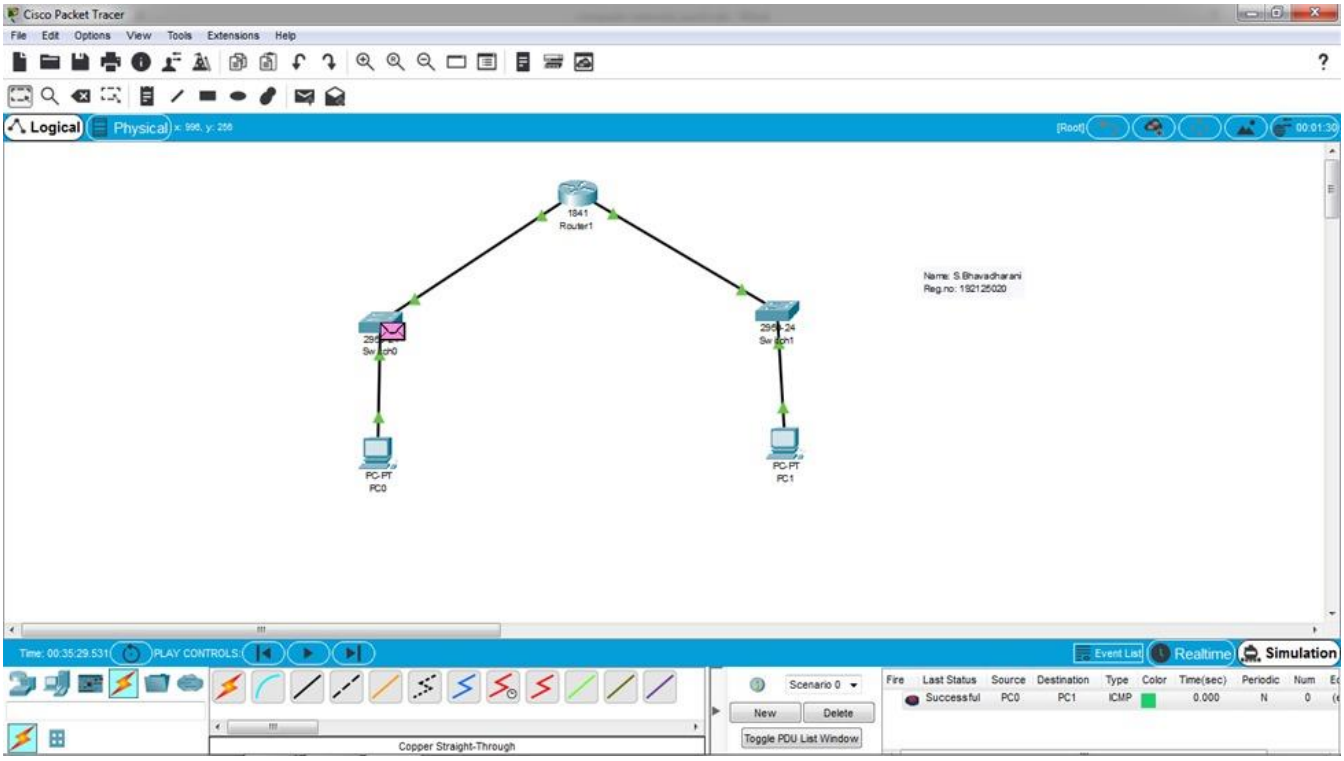
EXPERIMENT 7: Dynamic Routing using Packet Tracer (OSPF)

DYNAMIC ROUTING



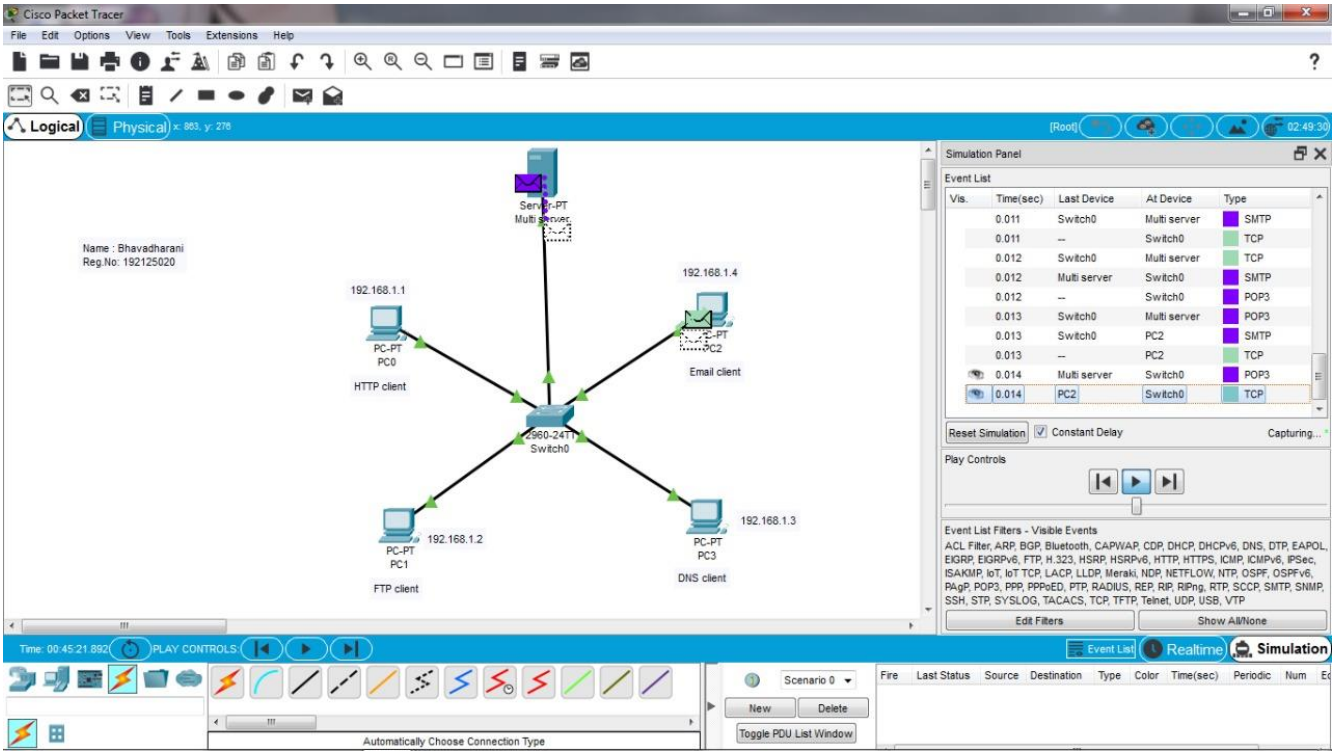
EXPERIMENT 8: Subnetting – Class C Addressing

SUBNETTING – CLASS C



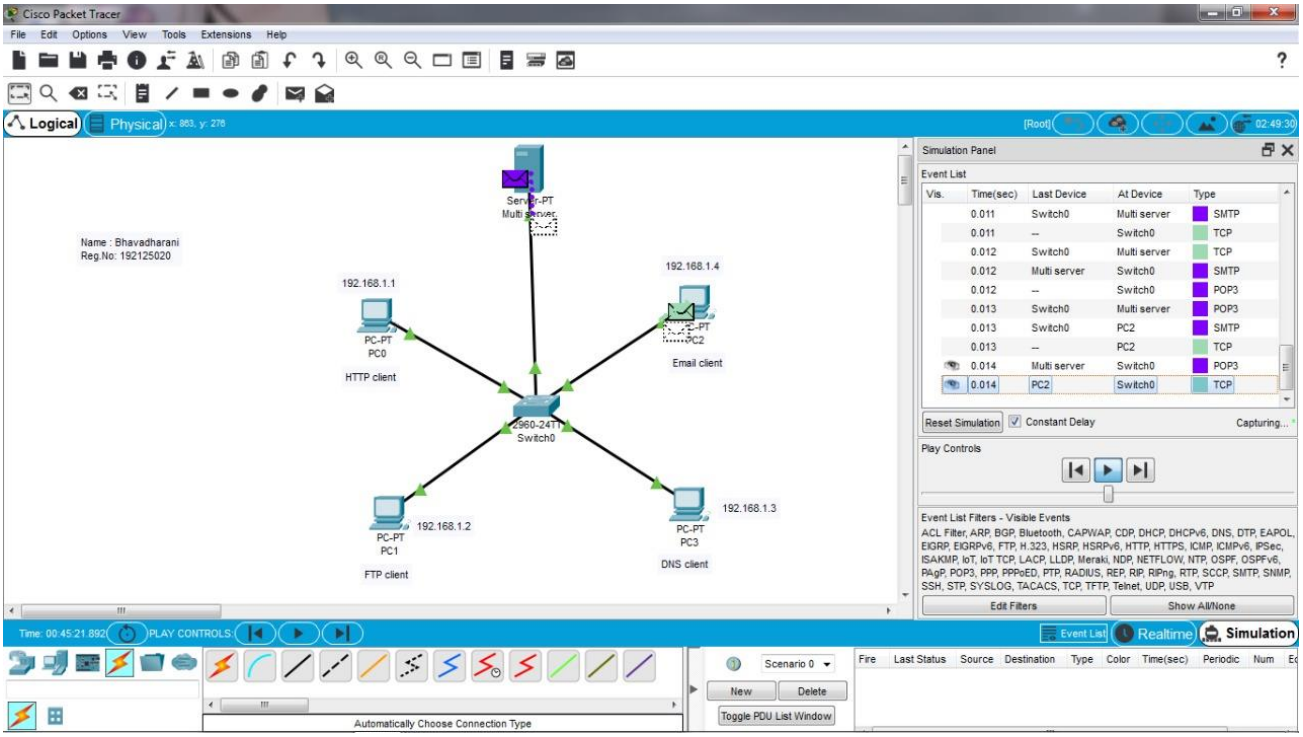
EXPERIMENT 9: Functionalities of TCP, UDP

FUNCTIONALITY OF TCP AND UDP



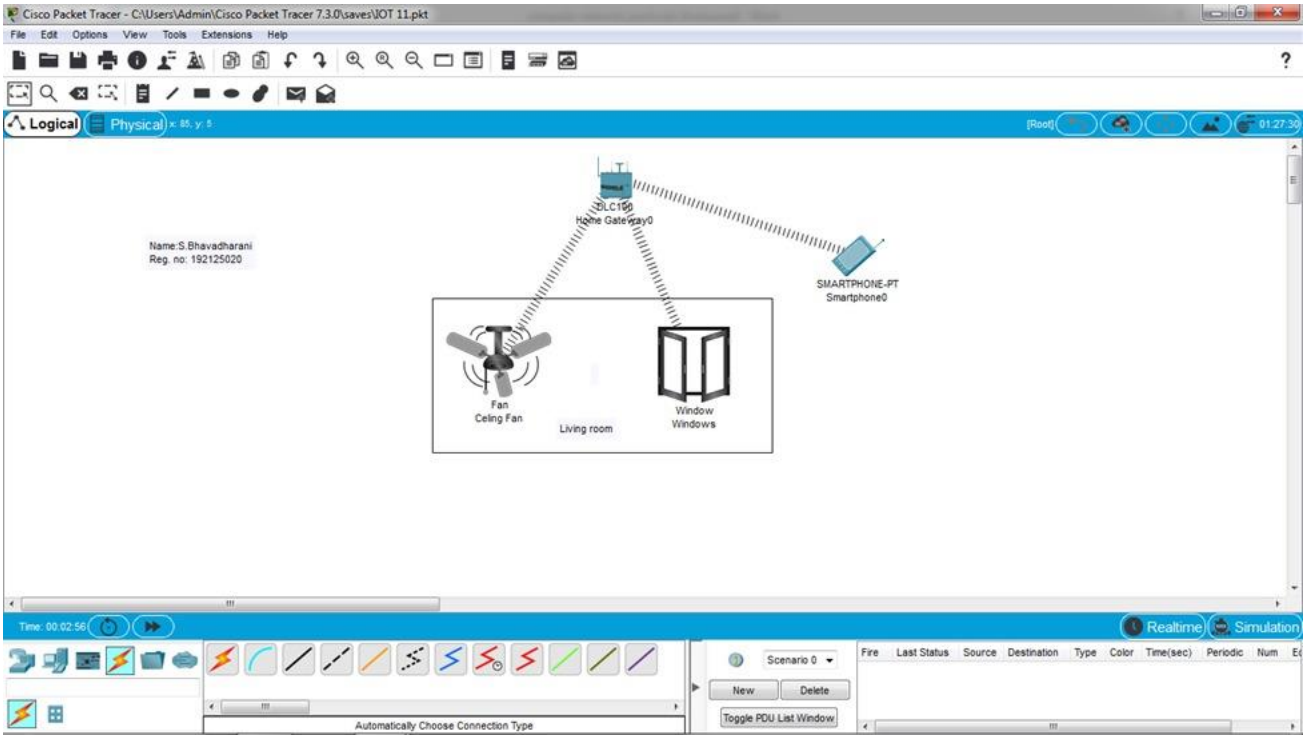
EXPERIMENT 10: TCP, UDP Exploration Solution

TCP UDP EXPLORATION



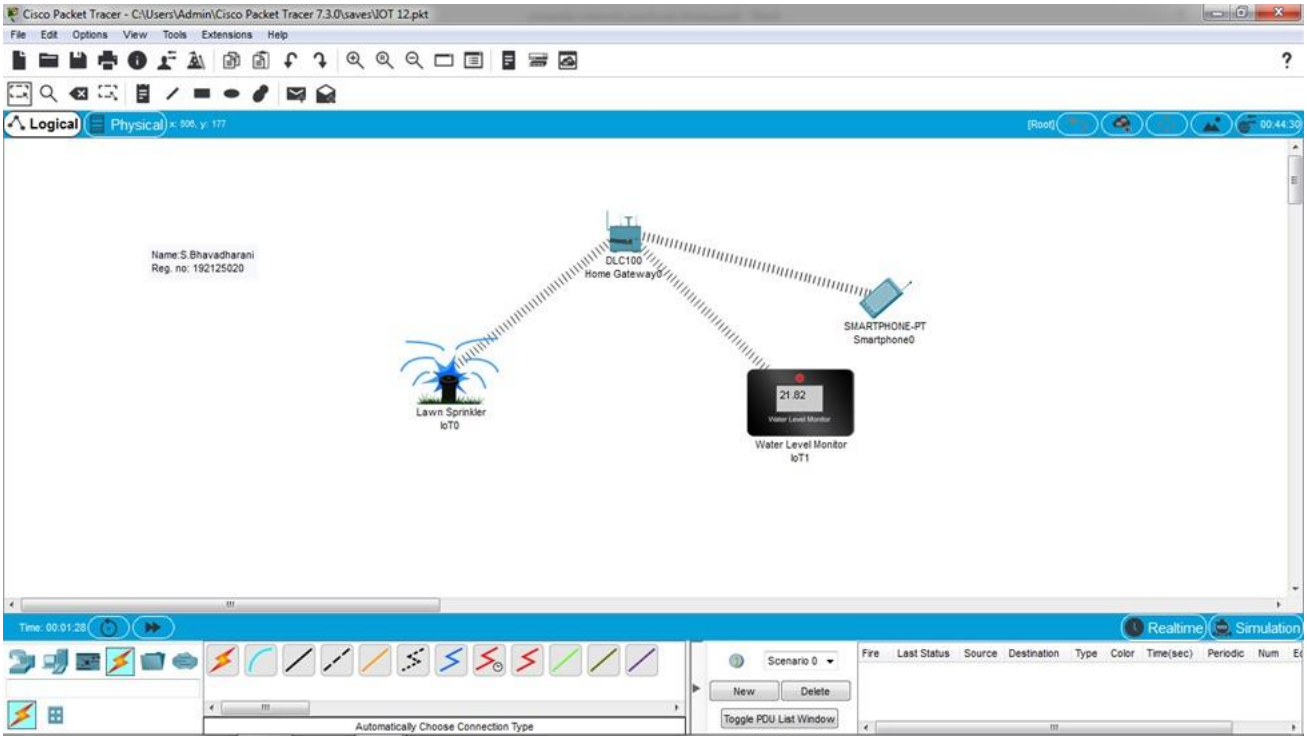
EXPERIMENT 11: IOT Based Smart Home Using Cisco Packet Tracer

IOT SMART HOME



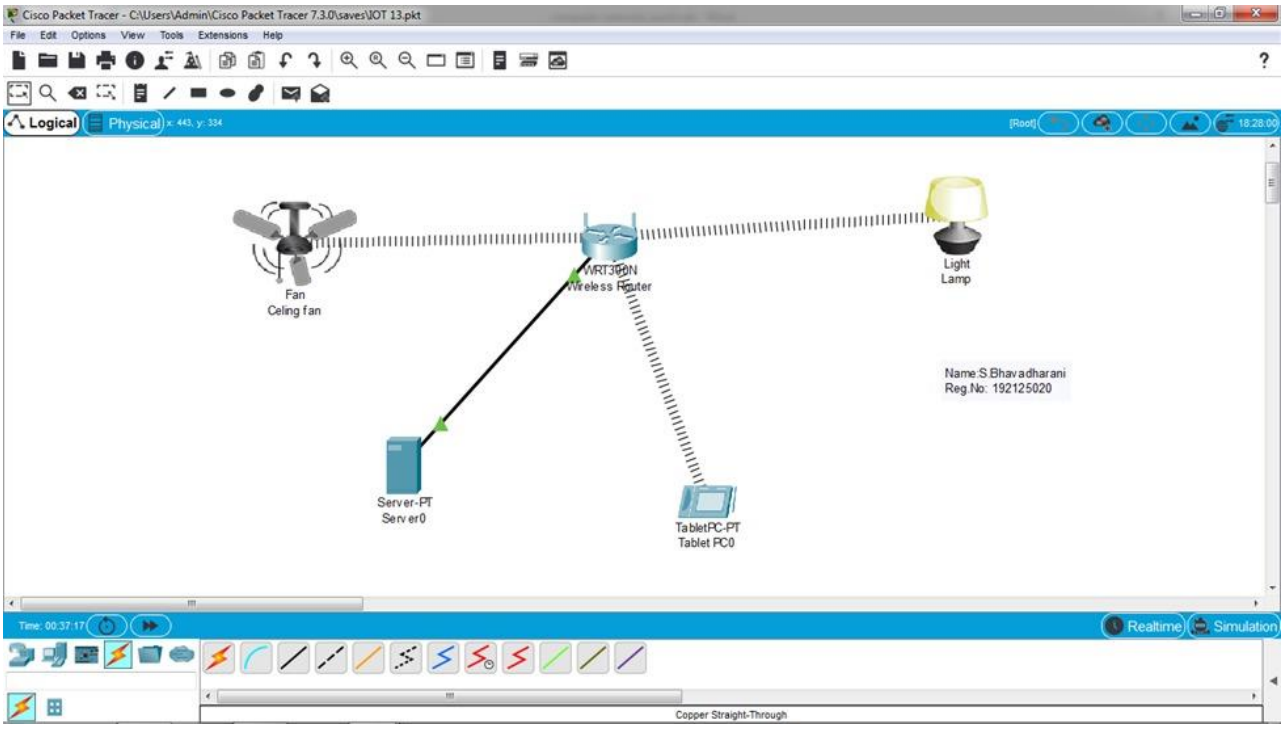
EXPERIMENT 12: Smart Garden in Cisco Packet Tracer

IOT SMART GARDEN



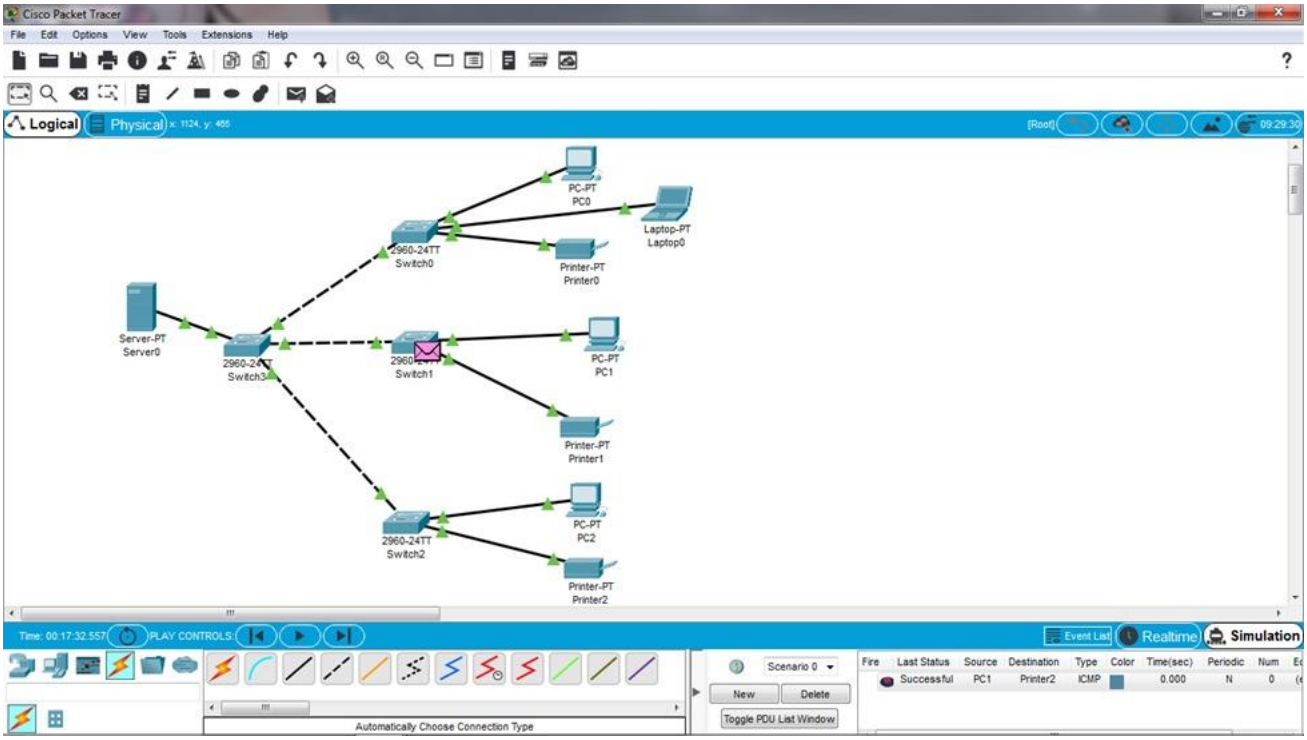
EXPERIMENT 13: IOT Devices in Networking Using Cisco Packet Tracer

IOT SMART HOME USING NETWORKING



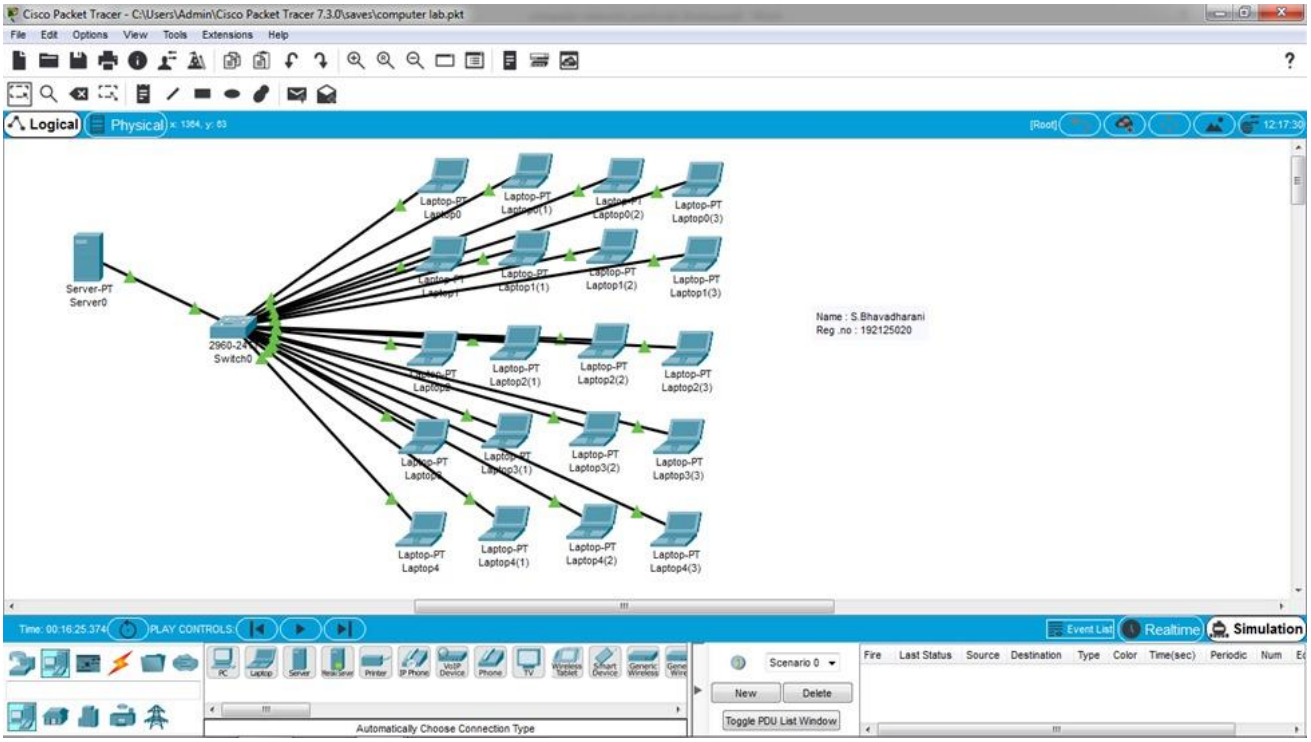
EXPERIMENT 14: Simulating X,Y,Z Company Network Design

SIMULATION OF X,Y,Z



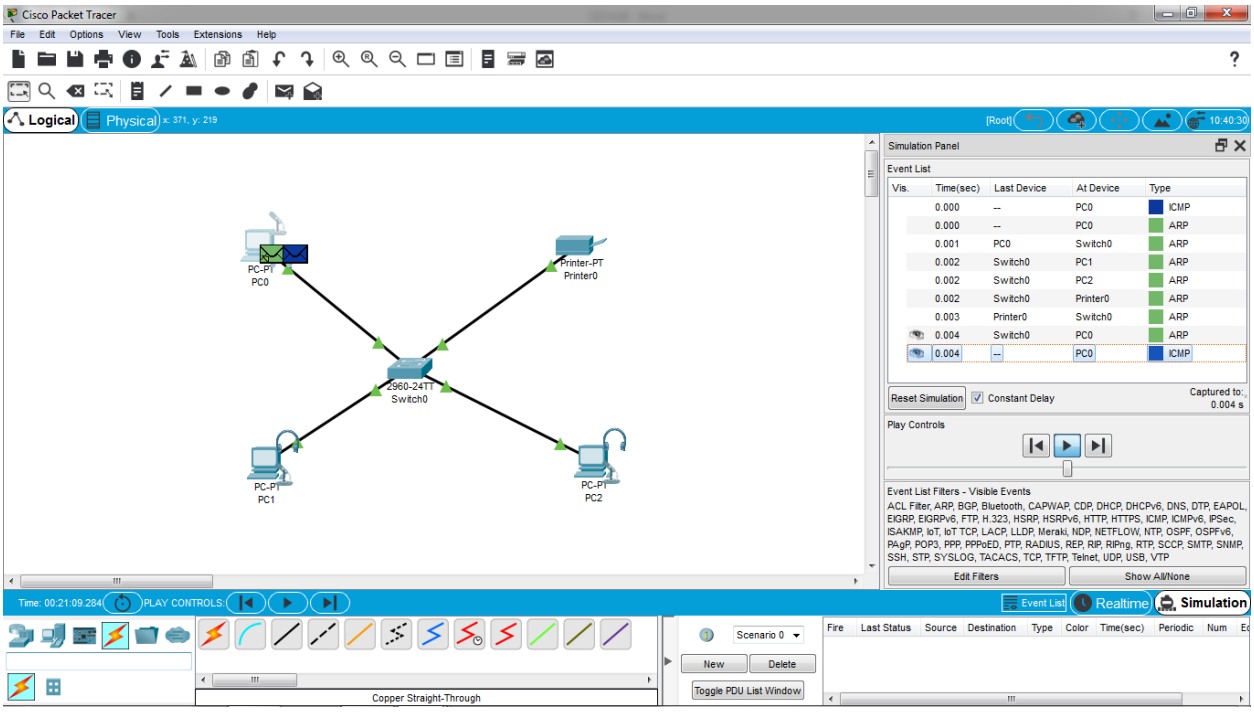
EXPERIMENT 15: Make Computer Lab in Cisco Packet Tracer

COMPUTER LAB



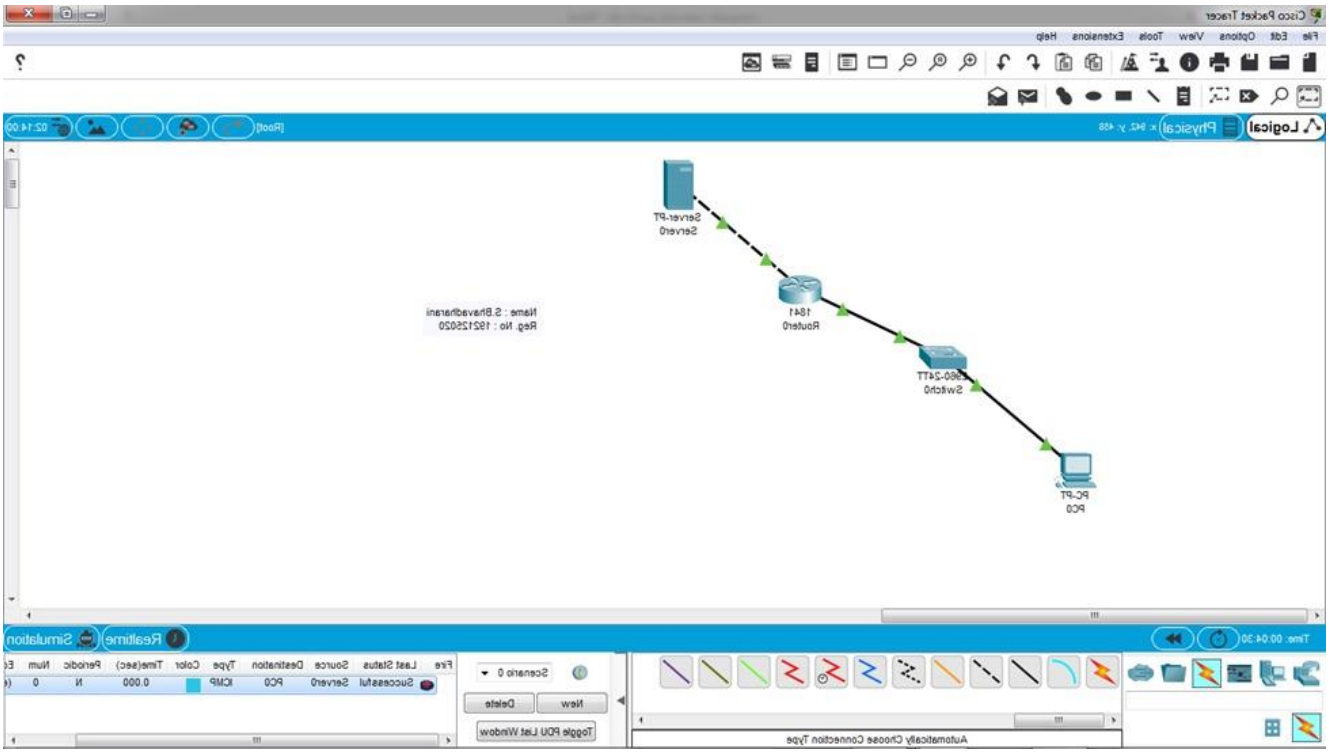
EXPERIMENT 16: Simulate a Multimedia Network

MULTIMEDIA NETWORK



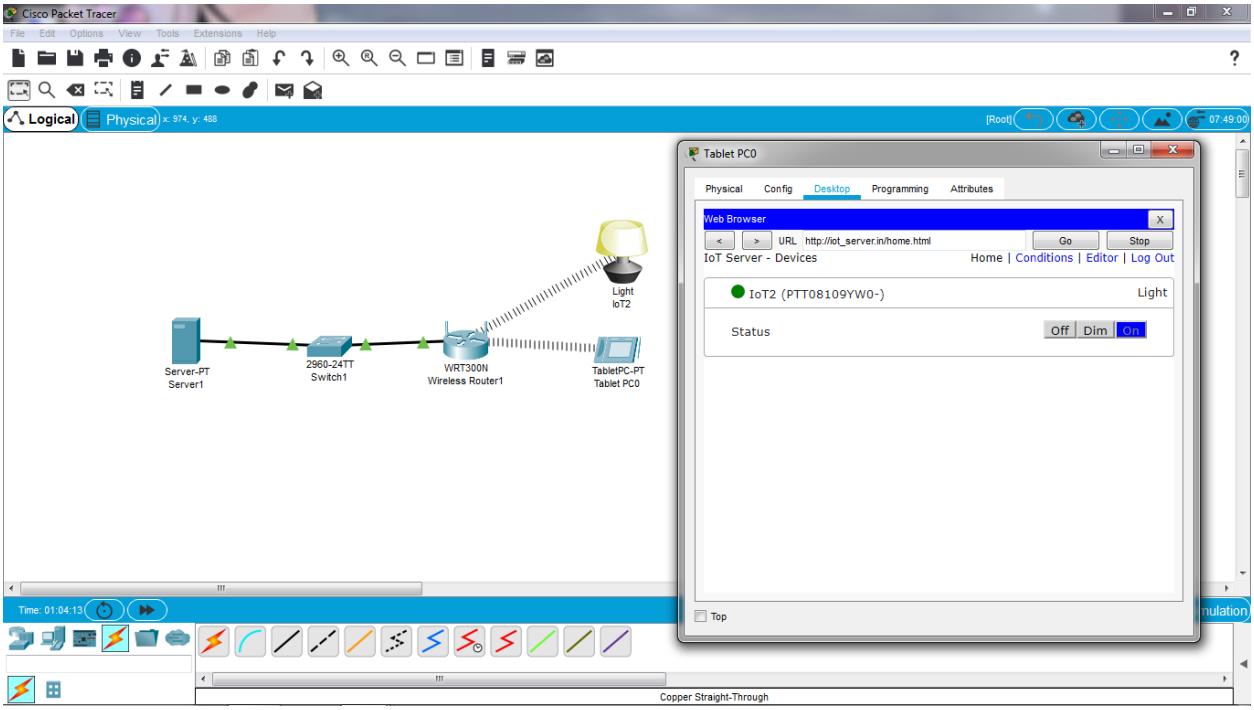
EXPERIMENT 17: AAA Local & Server Based Authentication Configuration in Cisco Packet Tracer

AAA



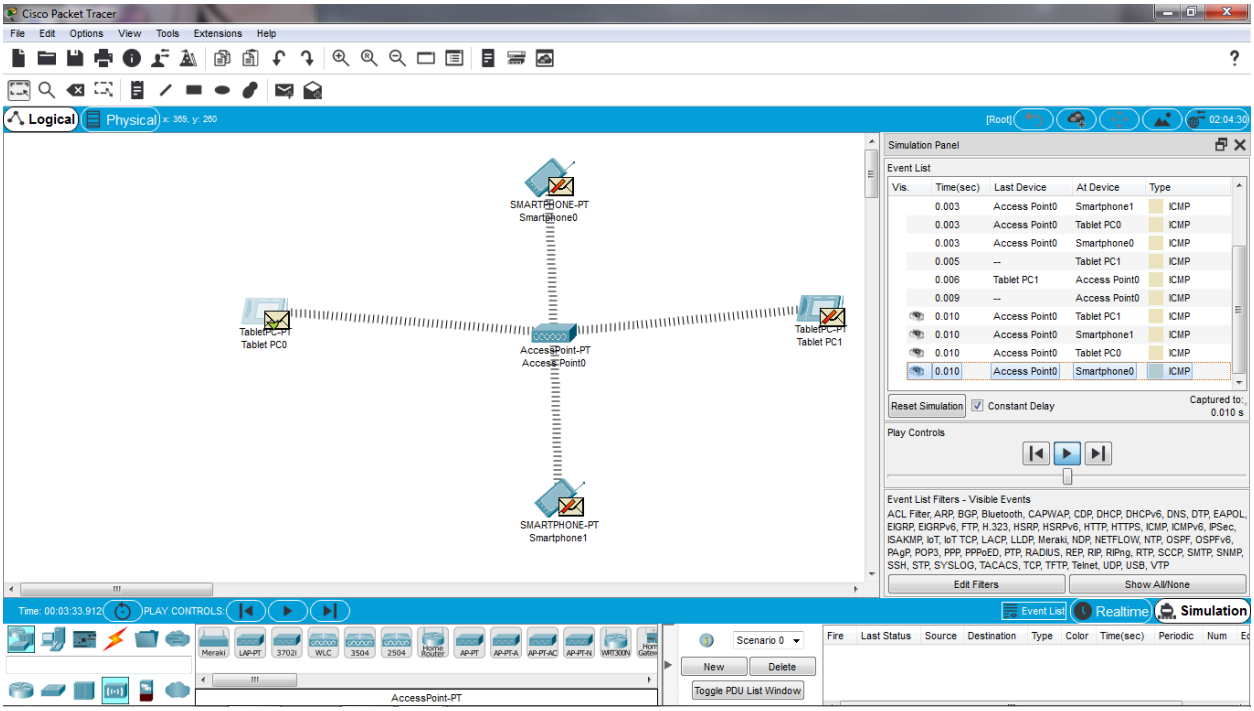
EXPERIMENT 18: IOT Based Smart Home using WPA Security & Radius Server

WPA SECURITY



EXPERIMENT 19: WLAN Using Cisco Packet Tracer

WLAN



EXPERIMENT 20: Control of Fan, Light, Window & Application of Using Cisco Packet Tracer