Name: Devanandh A B

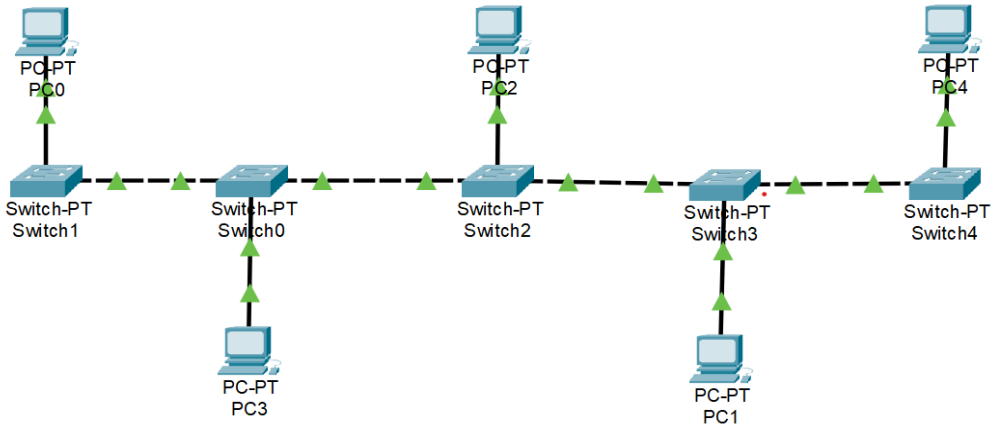
Roll no: AM.EN.U4ECE22014

Date:28/4/25

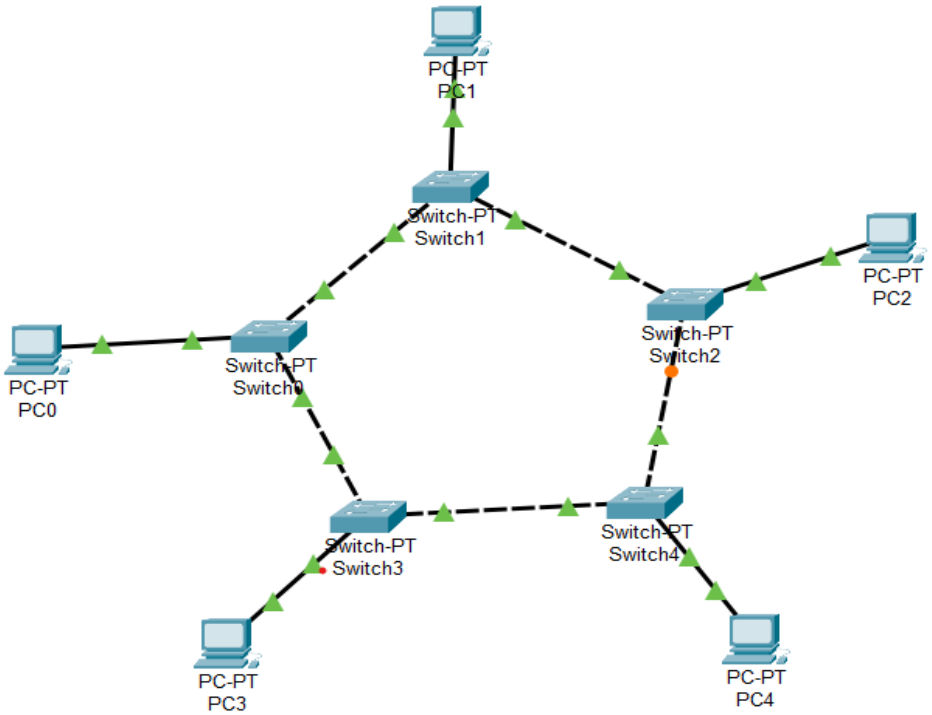
ASSIGNMENT 1

TOPOLOGIES

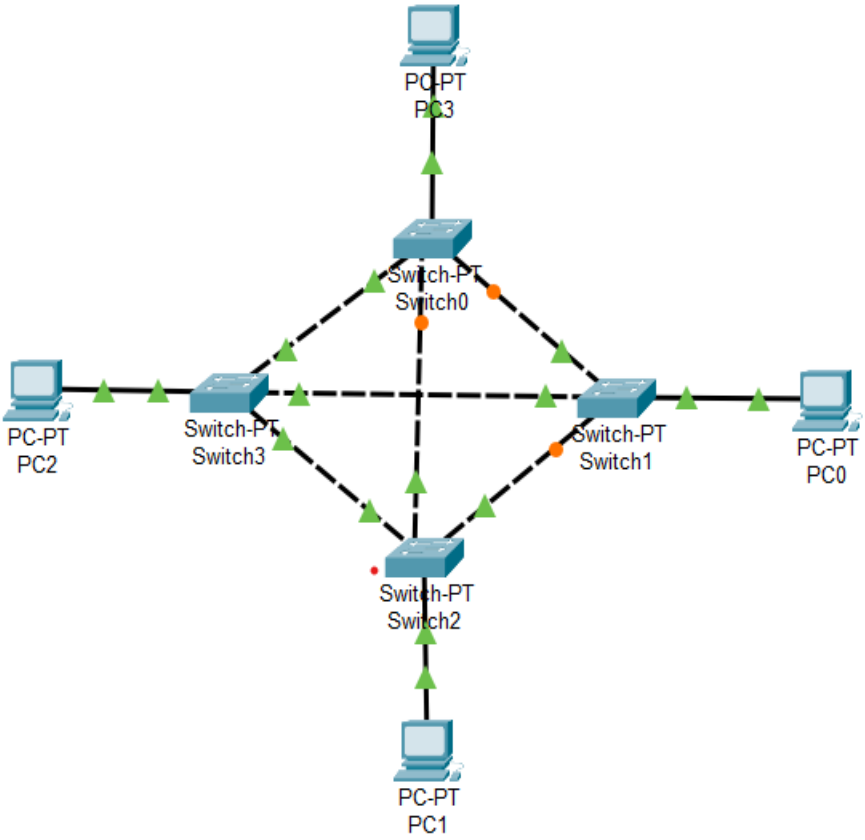
i. Bus Topology:



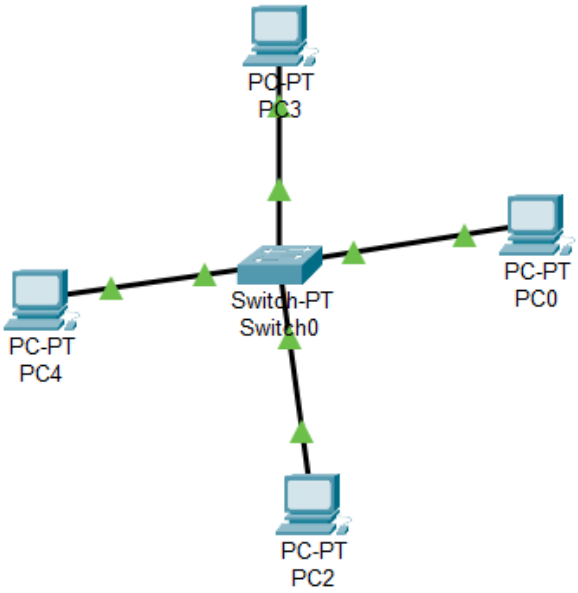
ii. Ring Topology:



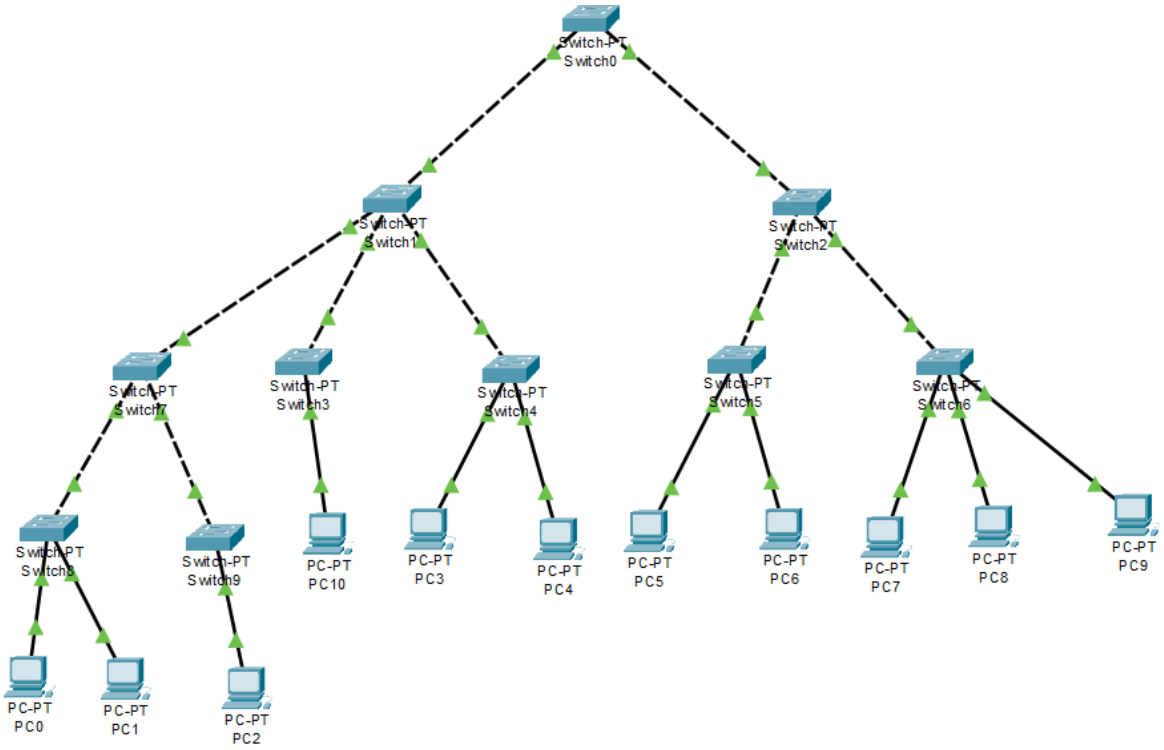
iii. Mesh Topology:



iv. Star Topology:

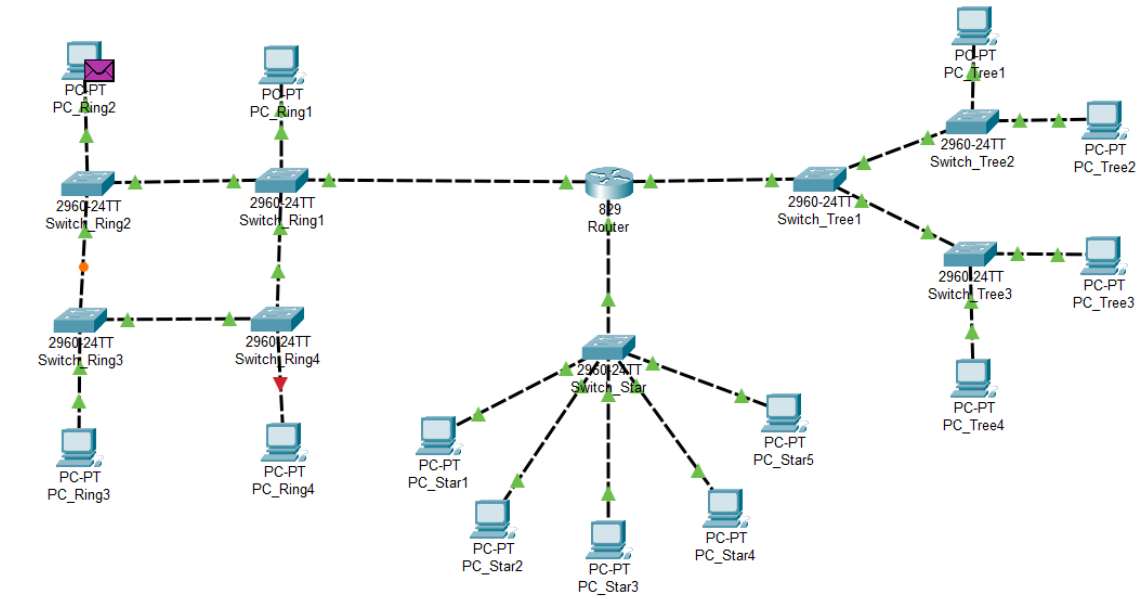


v. Tree Topology:


Switch-PT
Switch0
Switch-PT
Switch1
Switch-PT
Switch2
Switch-PT
Switch7
Switch-PT
Switch3
Switch-PT
Switch4
Switch-PT
Switch5
Switch-PT
Switch6
Switch-PT
Switch8
Switch-PT
Switch9
PC-PT
PC10
PC-PT
PC3
PC-PT
PC4
PC-PT
PC5
PC-PT
PC6
PC-PT
PC7
PC-PT
PC8
PC-PT
PC9
PC-PT
PC0
PC-PT
PC1
PC-PT
PC2

ASSIGNMENT 2:
TOPOLOGY IMPLEMENTATION

LAN Networks with Tree, Star, and Ring Topologies :



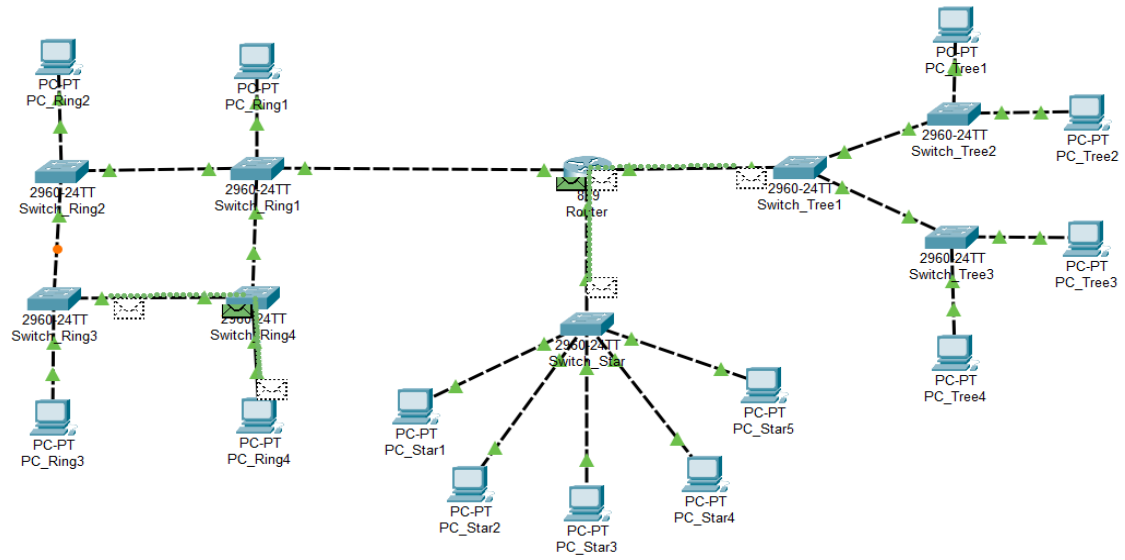
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	In Progress	PC_R...	PC_Tree4	ICMP		0.000	N	0	(edit)	(delete)

Source PC IP adress: 220.14.1.2 (PC_Ring2)
Destination PC IP adress: 220.14.3.4 (PC_Tree4)

Ring topology: IP Addresses → 220.14.1.1 - 220.14.1.4

Star topology: IP Addresses → 220.14.2.1 - 220.14.2.5

Tree topology: IP Addresses → 220.14.3.1 - 220.14.3.4



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	PC_Ring2	ICMP
	0.001	PC_Ring2	Switch_Ring2	ICMP
	0.002	Switch_Ring2	Switch_Ring1	ICMP
	0.002	Switch_Ring2	Switch_Ring3	ICMP
	0.003	Switch_Ring1	PC_Ring1	ICMP
	0.003	Switch_Ring1	Switch_Ring4	ICMP
	0.003	Switch_Ring1	Router	ICMP
	0.004	Switch_Ring4	PC_Ring4	ICMP
	0.004	Switch_Ring4	Switch_Ring3	ICMP
	0.004	Router	Switch_Tree1	ICMP
	0.004	Router	Switch_Star	ICMP
	0.004	Router	Router	ICMP
	0.005	Switch_Ring3	PC_Ring3	ICMP
	0.005	Switch_Tree1	Switch_Tree3	ICMP
	0.005	Switch_Tree1	Switch_Tree2	ICMP
	0.005	Switch_Star	PC_Star5	ICMP
	0.005	Switch_Star	PC_Star4	ICMP
	0.005	Switch_Star	PC_Star1	ICMP

Vis.	Time(sec)	Last Device	At Device	Type
	0.005	Switch_Star	PC_Star2	ICMP
	0.005	Switch_Star	PC_Star3	ICMP
	0.006	Switch_Tree3	PC_Tree4	ICMP
	0.006	Switch_Tree3	PC_Tree3	ICMP
	0.006	Switch_Tree2	PC_Tree2	ICMP
	0.006	Switch_Tree2	PC_Tree1	ICMP
	0.007	PC_Tree4	Switch_Tree3	ICMP
	0.008	Switch_Tree3	Switch_Tree1	ICMP
	0.009	Switch_Tree1	Router	ICMP
	0.010	Router	Switch_Ring1	ICMP
	0.011	Switch_Ring1	Switch_Ring2	ICMP
	0.012	Switch_Ring2	PC_Ring2	ICMP

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC_R...	PC_Tree4	ICMP		0.000	N	0	(edit)	(delete)