Experiment 2.1

Student Name: Shubham Goswami **UID: 21BCS11441**

Branch: CSE **Section/Group: 807 B**

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Subject Name: Computer Networks **Subject Code: 21CSH-256**

1. Aim: Implement different network topologies like star , bus and mesh topology with thehelp of packet tracer or NS2 software.

2. Theory:

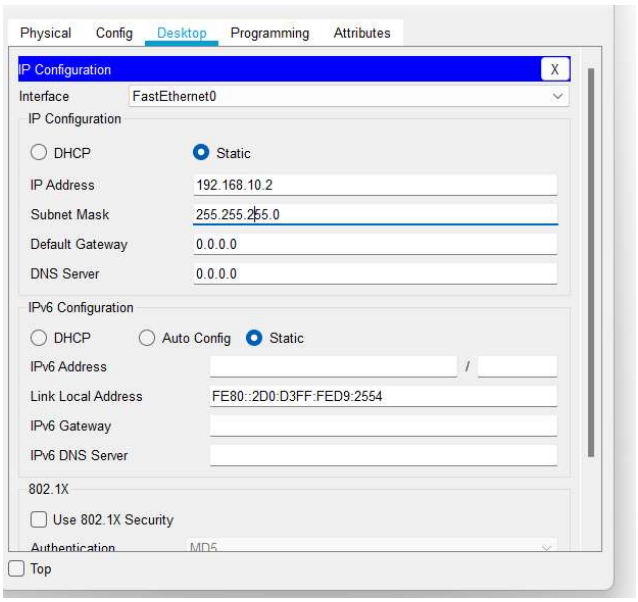
a.Topology: Topology defines the structure of the network of how all the components are interconnected to each other. There are two types of topologies: physical and logical topology.

b. Star Topology: Star topology is an arrangement of the network in which every node is connected to the central hub, switch or a central computer.

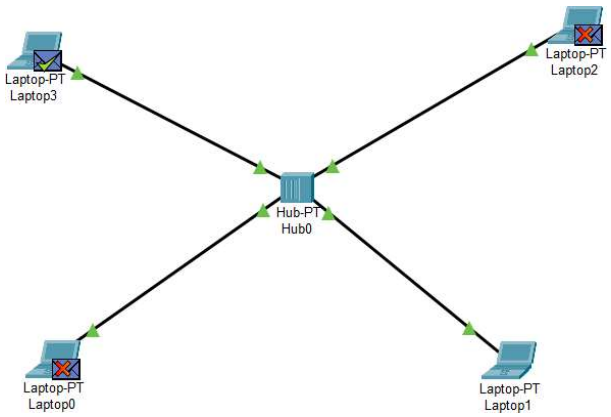
c. Bus Topology: The bus topology is designed in such a way that all the stations are connected through a single cable known as a backbone cable.

3. Screenshot of Outputs:

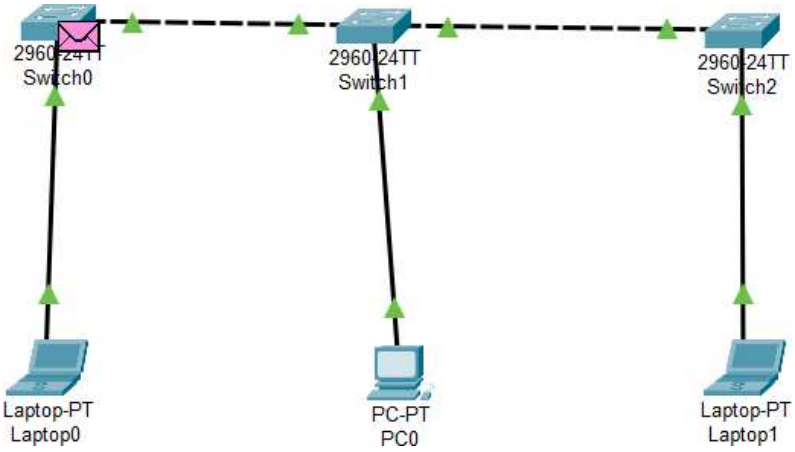
IP CONFIG: -



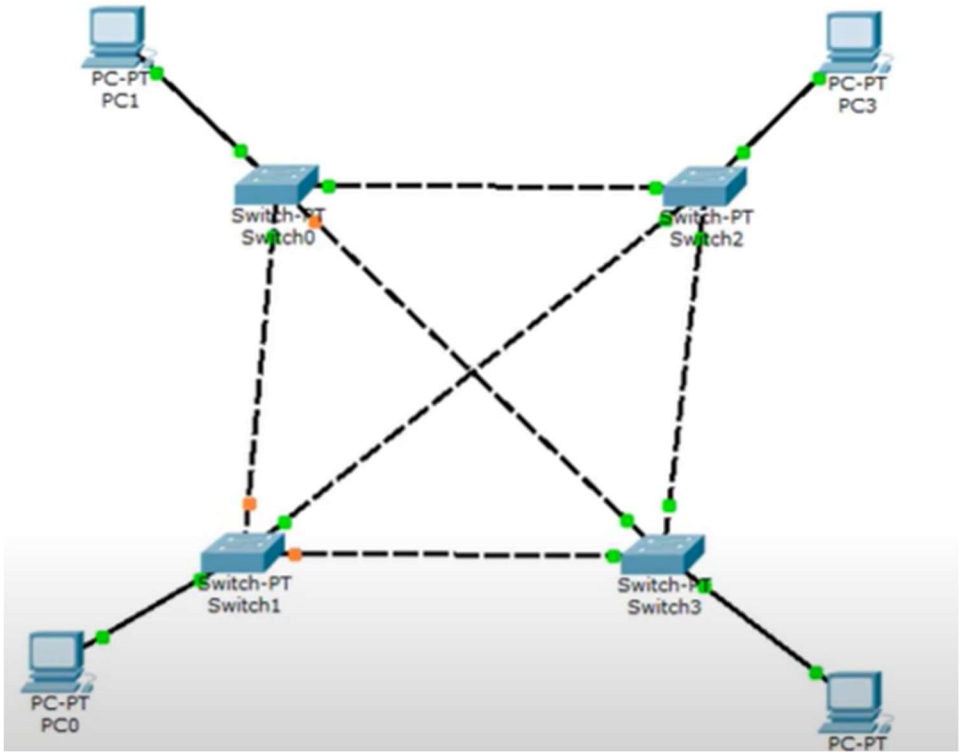
Star Topology: -



Bus Topology: -



Mesh topology



Learning Outcomes: -

1. I have learned the basic concepts of star and bus topologies.

2. I have learned how to implement the structure of star and bus topologies.