#### **CN Lab Experiment 2**

#### **Objective:**

- To Learn the different types of network topology.
- To set up the different topologies
- To study different types of network cables and their colour codes.
- To document the observations and save the configuration file in a GitHub repository.

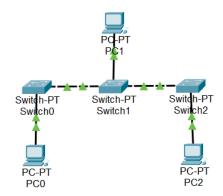
#### Requirements:

- Cisco Packet Tracer software.
- A GitHub account and a repository for lab assignments.
- Access to Google Classroom for submission.

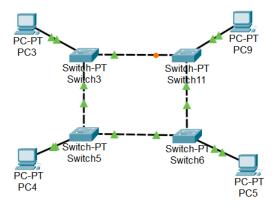
#### **Procedure:**

- 1. Open Packet Tracer:
- Launch Cisco Packet Tracer on your computer.
- 2. Implement a Bus Topology:
- Drag three computers onto the workspace.
- Connect them using a single backbone cable (Coaxial Cable).
- 3. Implement a Star Topology:
- Drag three computers and a switch onto the workspace.
- Connect each computer to the switch using straight-through Ethernet cables.
- 4. Implement a Ring Topology:
- Drag three computers onto the workspace.
- Connect them in a circular manner using crossover cables.
- 5. Implement a Mesh Topology:
- Drag three computers onto the workspace.
- Connect each computer to every other computer using crossover cables.
- 6. Test Connectivity:
- For each topology, assign IP addresses to the computers.
- Use the ping command to test connectivity between all computers.

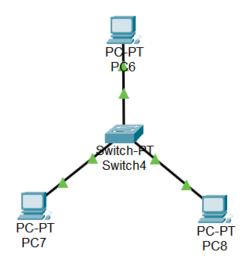
# **Bus Topology:**



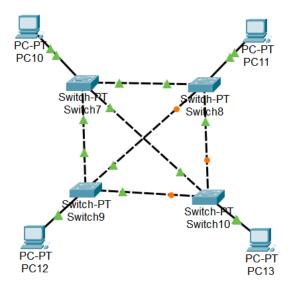
# Ring Topology:



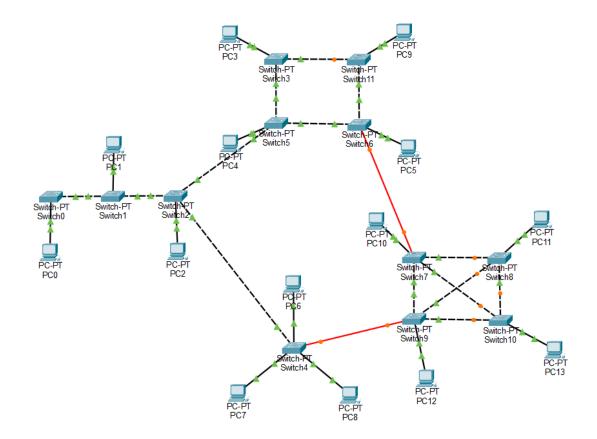
# **Star Topology:**



# Mesh Topology:



# **Hybrid Topology:**



#### **Result:**

Different types of Network Topology were learned.