**Lab 1: Introduction to Packet Tracer, Peer-to-Peer Communication, Study of Cables and its Color Codes**

**● Procedure:**

1. Open Packet Tracer:

■ Launch Cisco Packet Tracer on your computer.

■ Familiarize yourself with the interface, including the workspace, device

selection, and tools.

2. Create a Simple Network:

■ Drag two computers (PC-PT) onto the workspace.

■ Drag a switch (Switch-PT) onto the workspace.

■ Connect each computer to the switch using straight-through Ethernet

cables.

3. Configure IP Addresses:

■ Click on the first computer, go to the Desktop tab, and select IP

Configuration.

■ Assign an IP address (e.g., 192.168.1.1) and a subnet mask (e.g.,

255.255.255.0).

■ Click on the second computer, go to the Desktop tab, and select IP

Configuration.

■ Assign an IP address (e.g., 192.168.1.2) and a subnet mask (e.g.,

255.255.255.0).

4. Test Peer-to-Peer Communication:

■ On the first computer, open the Command Prompt from the Desktop tab.

■ Use the ping command to test connectivity to the second computer (e.g.,

ping 192.168.1.2).

■ Observe the response to ensure the computers can communicate.

5. Study Cables and Color Codes:

■ Examine different types of network cables provided (Ethernet, crossover).

■ Note the color codes for each wire in the cables:

■ Straight-through cable (used to connect different devices like a

computer to a switch).

■ Crossover cable (used to connect similar devices like computer to

computer).