**Local Area Network (LAN).**

* **Four PCs**
* **One Switch**
* **Basic IP Configuration**
* **Testing connectivity using ping**

**Lab Steps: Setting Up a Simple LAN**

**Step 1: Open Cisco Packet Tracer**

Launch Cisco Packet Tracer and create a new project.

**Step 2: Add Network Devices**

Drag and drop the following devices onto the workspace:

1 x Switch

4 x PC (PC-0 to PC-4)

**Step 3: Connect the Devices**

Use Copper Straight-Through Cables to connect:

PC-0 to Switch (**FastEthernet0**) and Switches 2950-24 (**FastEthernet0/1**)

PC-1 to Switch (**FastEthernet0**) and Switches 2950-24 (**FastEthernet0/2**)

PC-2 to Switch (**FastEthernet0**) and Switches 2950-24 (**FastEthernet0/3**)

PC-3 to Switch (**FastEthernet0**) and Switches 2950-24 (**FastEthernet0/4**)

**Step 4: Assign IP Addresses to PCs**

**Click on PC-0** → Go to Desktop → Open IP Configuration:

**IP Address:** 192.168.1.1

**Subnet Mask:** 255.255.255.0

**Click on PC-1**

**IP Address:** 192.168.1.2

**Subnet Mask**: 255.255.255.0

**Click on PC-2**

**IP Address:** 192.168.1.3

**Subnet Mask**: 255.255.255.0

**Click on PC-3**

**IP Address:** 192.168.1.2

**Subnet Mask**: 255.255.255.0

**Step 5: Test Connectivity**

Open Command Prompt on PC-0 and type:-

**Ping 192.168.1.1**