**Hybrid Topology.**

**Star Topology.**

### **Required Equipment:**

1. **1 Switches**
2. **4 Computers (PC1 – PC4)**
3. **1 Backbone Cable (Coaxial or Ethernet Hub as a Bus) RJ45 Cables**.
4. **Testing connectivity using ping.**

**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:

**Click on PC-2**

**IP Address:** 192.50.1.10

**Subnet Mask:** 255.255.255.0

**Click on PC-3**

**IP Address:** 192.50.1.11

**Subnet Mask:** 255.255.255.0

**IP Address:** 192.50.1.9

**Subnet Mask:** 255.255.255.0

**Click on PC-1**

**IP Address:** 192.50.1.8

**Subnet Mask:** 255.255.255.0

Test it using this Command.

* Open one pc in network land one.
* **Click on PC-0** → Go to Desktop → Command Prompt.
* Write Ping 192.50.1.9.

**Bus Topology.**

### **Required Equipment:**

1. **3 Switches**
2. **5 Computers (PC1 – PC6)**
3. **1 Backbone Cable (Coaxial or Ethernet Hub as a Bus) RJ45 Cables**.
4. **Testing connectivity using ping.**

**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:

3 x Switch

6 x PC (PC-0 to PC-5)

**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 (**FastEthernet0/1**)

PC-4 to Switch (**FastEthernet0**) and Switches 2950-24 (**FastEthernet0/2**)

PC-5 to Switch (**FastEthernet0**) and Switches 2950-24 (**FastEthernet0/1**)

PC-6 to Switch (**FastEthernet0**) and Switches 2950-24 (**FastEthernet0/2**)

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

**Click on PC-4** → Go to Desktop → Open IP Configuration:

**Click on PC-7**

**IP Address:** 192.50.1.5

**Subnet Mask:** 255.255.255.0

**Click on PC-8**

**IP Address:** 192.50.1.6

**Subnet Mask:** 255.255.255.0

**Click on PC-9**

**IP Address:** 192.50.1.7

**Subnet Mask:** 255.255.255.0

**IP Address:** 192.50.1.2

**Subnet Mask:** 255.255.255.0

**Click on PC-5**

**IP Address:** 192.50.1.3

**Subnet Mask:** 255.255.255.0

**Click on PC-6**

**IP Address:** 192.50.1.4

**Subnet Mask:** 255.255.255.0

Test it using this Command.

* Open one pc in network land one.
* **Click on PC-0** → Go to Desktop → Command Prompt.
* Write Ping 192.50.1.9.