



### **Experiment-4**

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**Subject Name: Computer Networks**

**Subject Code: 22CSH-312**

**1. Aim:** Configure and understand working of network devices Hub, Switch, Routers.

**2. Objective:** To understand working of network devices.

#### **3. Tools Needed:**

**S/W Requirement :-**

Cisco Packet Tracer

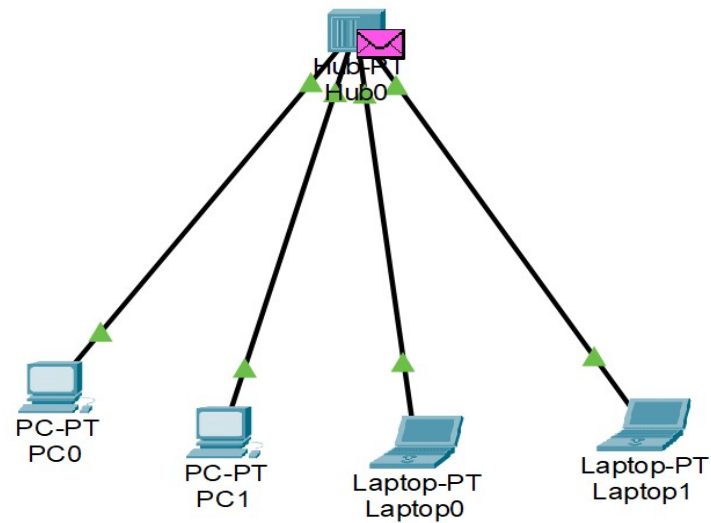
**H/W Requirement :-**

- **Processor** – Any suitable Processor e.g. Celeron
- **Main Memory** - 128 MB RAM
- **Hard Disk** – minimum 20 GB IDE Hard Disk
- **Removable Drives**–1.44 MB Floppy Disk Drive –52X IDE CD-ROM Drive
- Keyboard and Mouse

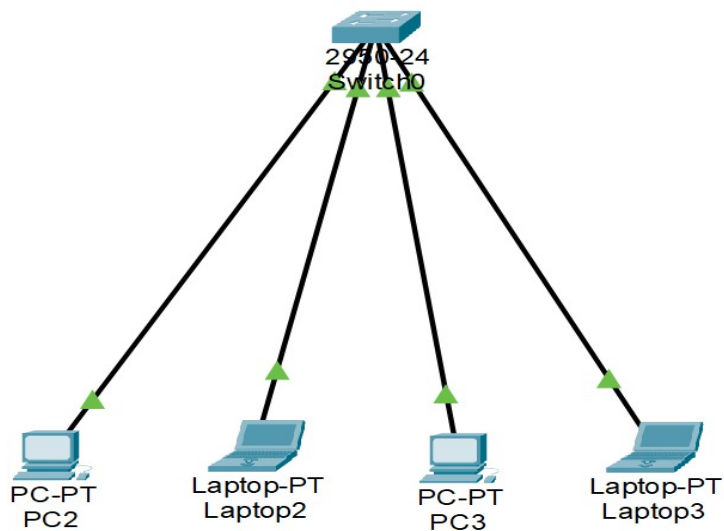
#### **4. Procedure:**

1. Attach required devices (Hub/Switch/Router) in the packet tracer software.
2. Assign IP address to devices.
3. Select source and destination and drop packet from source to destination.
4. Go to Simulation mode and click capture/Play.
5. Simulation will start and packet will only be accepted by destination.

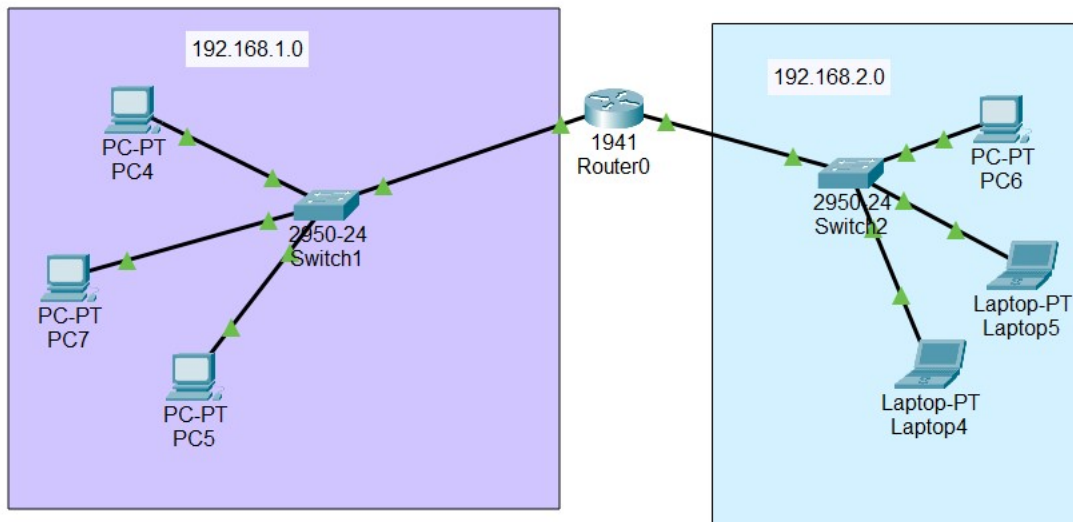
## 5. Output:



**Hub**



**Switch**



**Router**

## 6. Learning Outcome:

- Understanding the setup and configuration of network devices Hub, Switch, Routers.
- Learning to use Cisco Packet Tracer to simulate different network designs.
- Gaining practical skills in configuring network devices and analyzing their connectivity.