



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

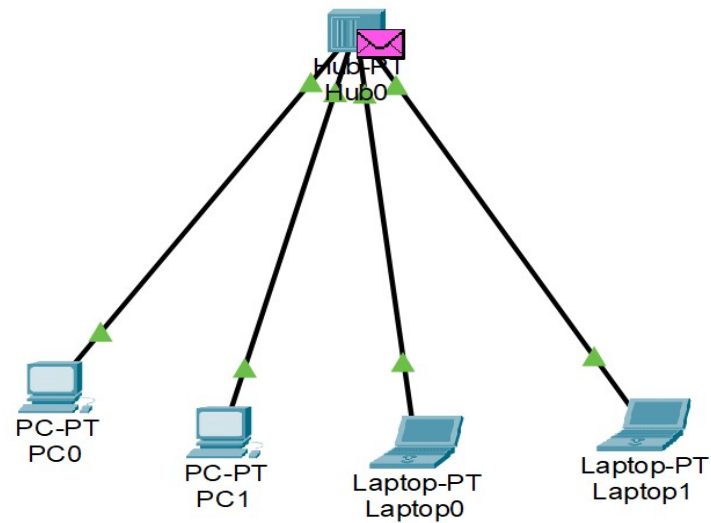
H/W Requirement :-

- **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

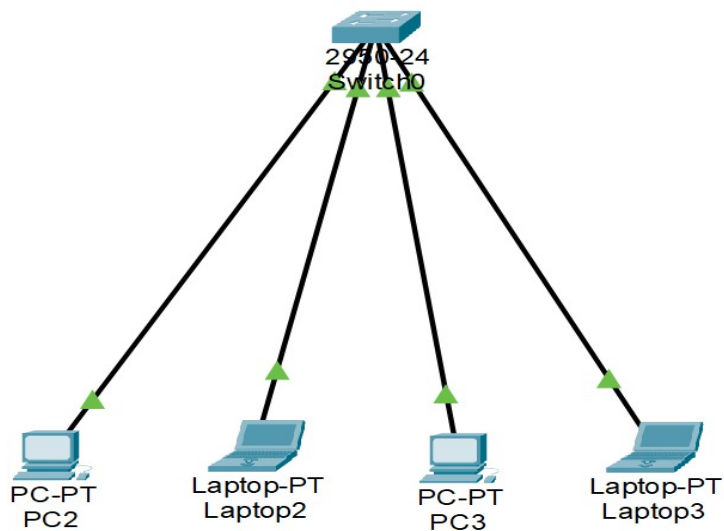
4. Procedure:

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.

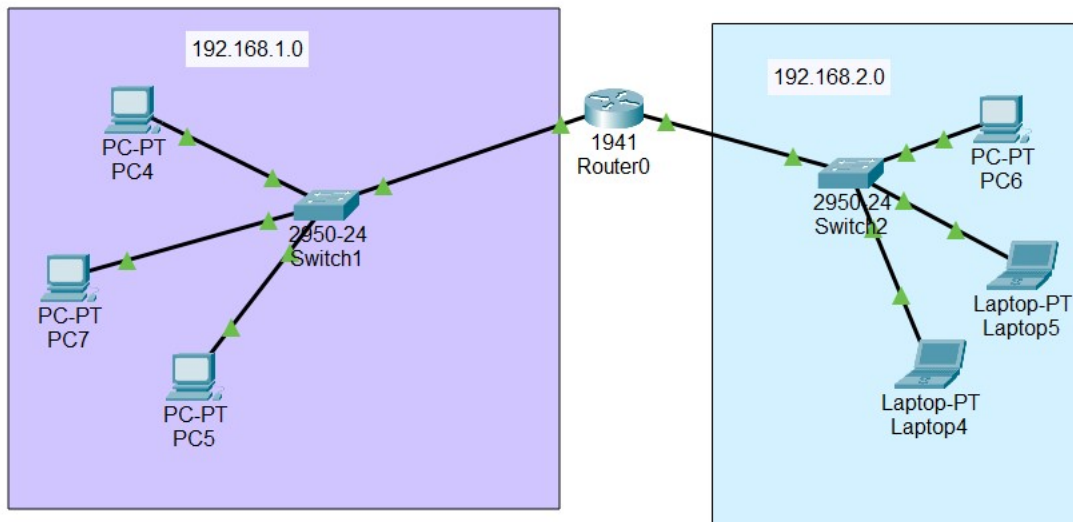
5. Output:



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.