Department of Computer Science and Engineering

Islamic University of Technology (IUT)

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Laboratory Report

CSE 4412 : Data Communication and Networking Lab

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Section : CSE (SWE)

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Title: Creating a Simple LAN (Local Area Network) in CISCO Packet Tracer.

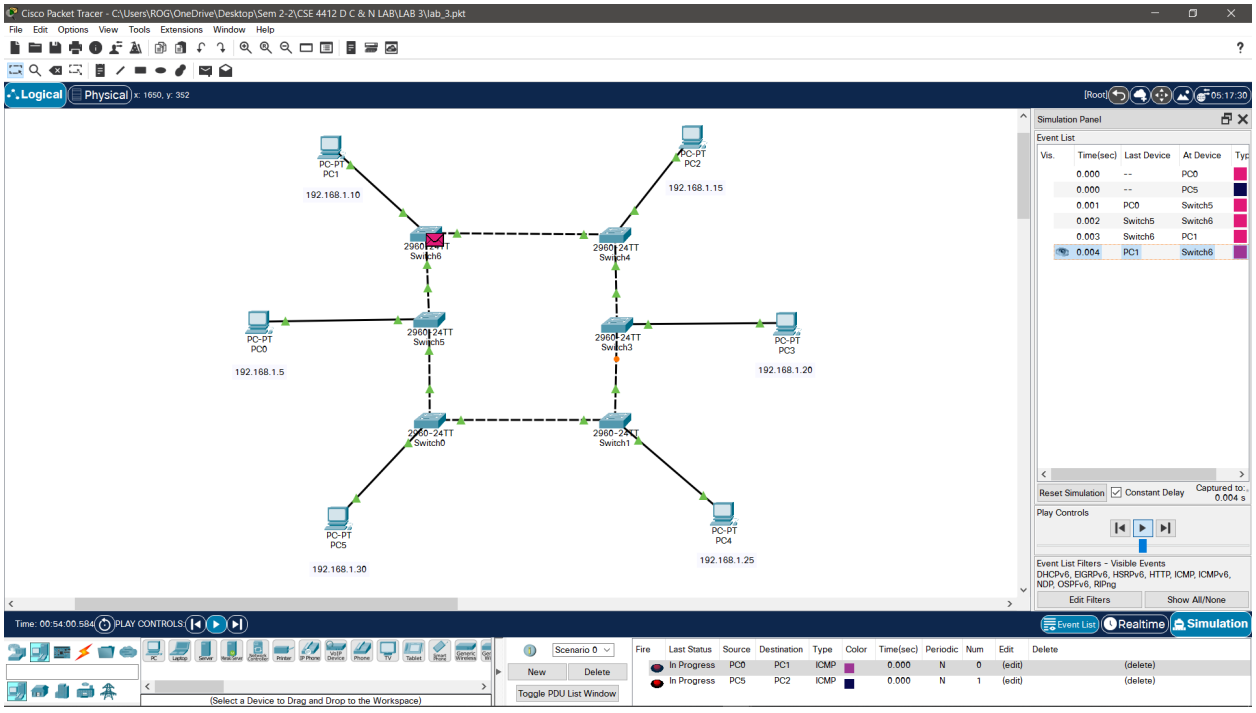
Objective:

1. Create a Simple LAN (Ring Topology) by connecting multiple end devices
2. Significance of IP address
3. Difference between Switch and Hub.

Devices/ software Used:

1. Cisco Packet Tracer
2. A desktop computer

Diagram of the experiment:



Working Procedure:

1. First I selected switches for the network and it is a 2960.
2. Then I connected the switches with copper cross overs.
3. Secondly I added a few end devices. In this case, a PC.
4. Then I connected the PC and the switches with a copper straight-through.
5. Now I set the IP of all the end devices.
6. As I included 6 different PCs for this network setup. So I configured each and every PC with an unique IP address.
7. Then I added a simple PDU and set the destination and source for the PDU.

Observation:

1. The topology was able to pass the message as it should be.
2. The message first went to the switch and then it looked for the switch that had the IP address of the destination.
3. After it found the destination it reached the destination.

Challenges:

1. Didn’t face any problem in setting up the network.
2. But understanding the event list was still a problem.