

Ex.no:1

Practical - 03

Date: 30/7/24

AIM:

To study the packet tracer tool installation and user interface overview.

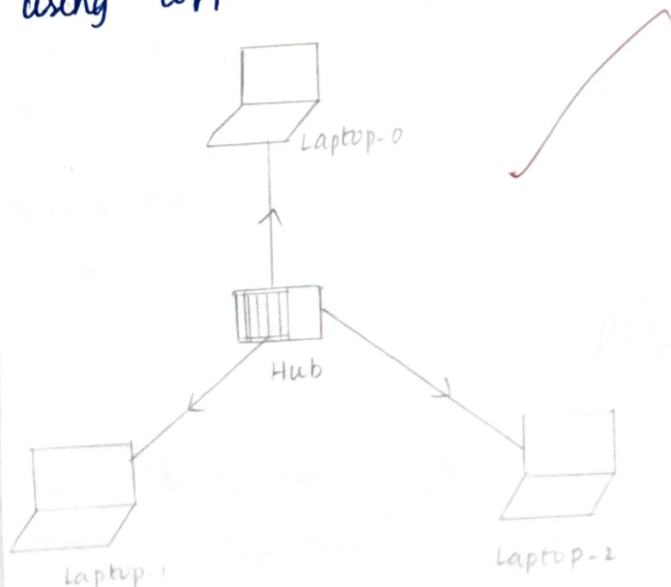
Analyse the behaviour of network devices using CISCO PACKET TRACER simulator.

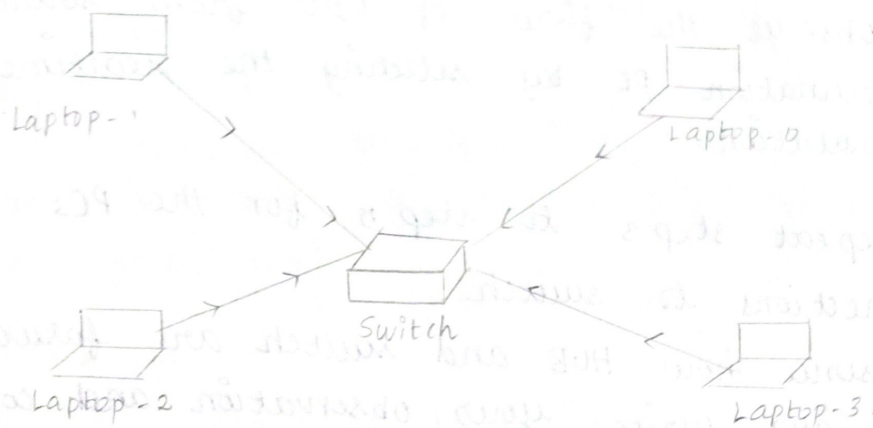
1) From the network component box, click and drag and drop the below components:

- a) 4- Generic PCs and one HUB.
- b) 4 Generic PCs and one switch.

2) click on connections.

- a) click on copper straight-through cable.
- b) Select one of the PC and connect it to HUB using the cable. The link LED should glow in green, indicating that the link is up. Similarly connect remaining 3 PCs to the HUB.
- c) Similarly connect 4 PCs to the switch using copper straight-through cable.





3) Click on the PCs connected to hub, go to the Desktop tab, click on the IP configuration and enter an IP address and subnet mask. Here, the default gateway and DNS server information is not needed as there are only two end devices in the network.

PC0	PC1
<div>IP Configuration</div> <div> <input type="radio"/> DHCP   <input checked="" type="radio"/> Static </div> <div> IP Address     10.1.1.1  Subnet Mask   255.0.0.0  Default gateway _____  DNS server _____ </div>	<div>IP Configuration</div> <div> <input type="radio"/> DHCP   <input checked="" type="radio"/> Static </div> <div> IP Address     10.11.2  Subnet Mask   255.0.0.0  Default gateway _____  DNS server _____ </div>

click on the message icon from the common tool bar.  
a) Drag and drop it on one of the PC.  
and then drop it on other PC (destination machine) connected to the hub.



4) Observe the flow of PDU from source to destination PC by selecting the realtime mode of simulation.

5) Repeat steps 3 to step 5 for the PCs connections to switch.

6) Observe how HUB and switch are forwarding the PDU and write your observation and conclude about behaviour of switch and HUB.

Students observation :

a) Hub is used for broadcast transmission whereas switches are used for selective forwarding i.e. packets.

b) Mesh topology

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RESULT:

Thus the study of packet tracer and interfaces are overviewed and observed.