

Exp: 03  
30/07/24

### Practical 3

## CISCO PACKET TRACER SIMULATOR

### Aim:-

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

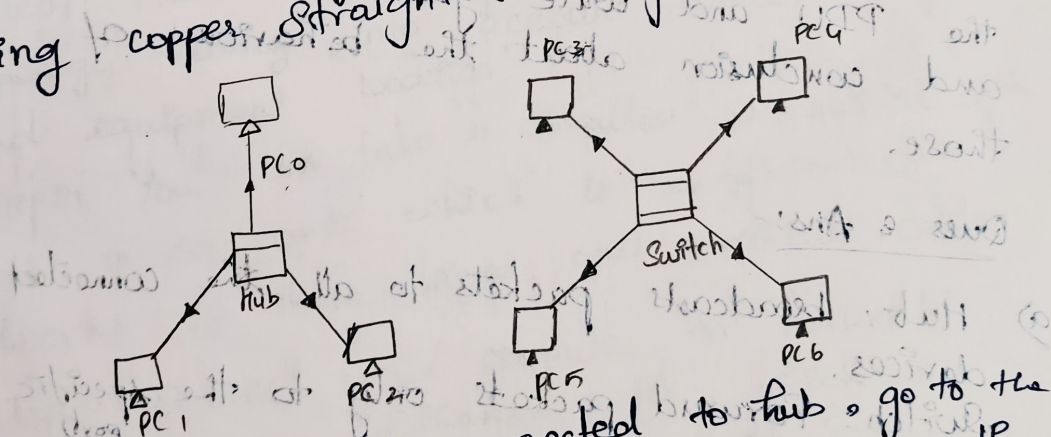
1. From the network component box, click and drag and drop below the components.

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 IP config, 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

IP Configuration	
o DHCP	o Static
IP Address	10.1.1.1
Subnet Mask	255.0.0.0

PC1

IP Configuration	
o DHCP	o Static
IP Address	10.1.1.2
Subnet Mask	255.0.0.0

click on the PC0 (message icon) from the common tool bar.

a. Drag and drop it on one of PC (source machine) and then drop it on another PC (destination machine) connected to the HUB.

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

5. Repeat the step # 3 to 5 for PCs

6. Observe the HUB and switch and forward the PDU and write your observation and conclusion about the behaviours of those.

### Ques & Ans:-

a) Hub: broadcasts packets to all the connected devices.

Switch: Forward packets only to the specific port

b) Mesh Topology

Each device connected to every other device in network

### Result:-

The experiment was successfully executed and the output is verified.