31/7/24 PRACTICAL - 3

# CISCO PACKET TRACKER.

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

(a) Analyze the behaviour of network devices using "CISCO packet".

From the network component box click and drag and drop the below compone

a. 4 Generic PCs and one HUB.

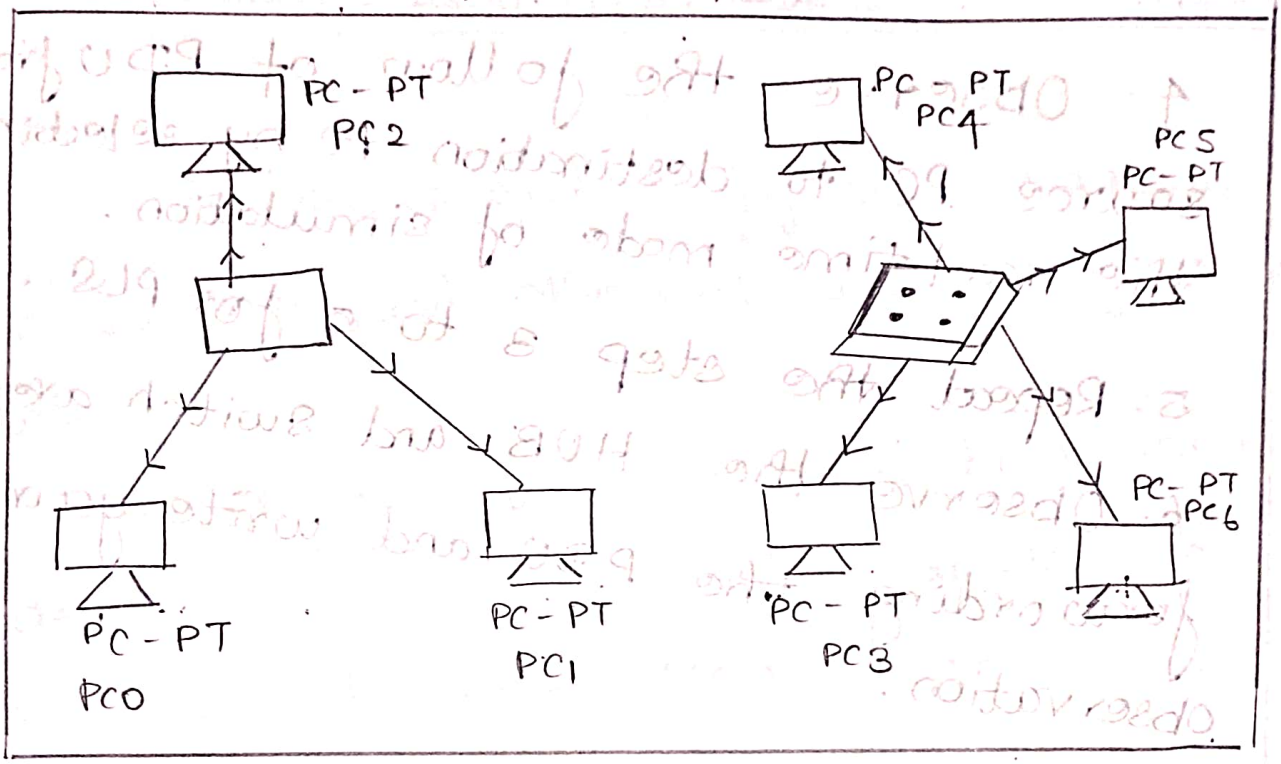
b. 4 Generic PCs and one switch.

click on connections.

(a) click on copper straight - through capable.

(b) Select one of the PC and connect in to HUB.

(c) Similarly connect 4PCs to the switch using copper straight - through cable.




3. Click on the PCs connected to hub go to the desktop tab, click on IP configuration.

| IP CONFIGURATION | |
|---|---|
| ○ DHCP ◉ Static | |
| IP address | 10.1.1.1 |
| Subnet | 255.0.0.0 |
| Default | |
| DNS server | |

| IP CONFIGURATION | |
|---|---|
| ○ DHCP ◉ Static | |
| IP address | 10.1.1.2 |
| Subnet | 255.0.0.0 |
| Default | |
| DNS server | |

Click on the PCv (message icon) from the common tool bar.

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

5. Repeat the step 3 to 5 for PLS.

6. Observe the HUB and switch are forwording the PDU and write your observation.

Student Observation.

(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.