Exp: No:3
1/8/25

To study the Packet tracer tool Installation and user Interface Overview.

Aim:

To study the packet tracer tool installation and User Interface Overview.

Introduction:

A simulator as the name suggests, simulates network devices and its Environment. Packet Tracer is an exciting network design, simulation & modelling tool.

1) It allows you to model complex system without need for dedicated equipment.

2) It helps you to practice your network configuration and troubleshooting skills via compiler or an android or ios based mobile device.

3) It is available for both Linux & windows desktop environment.

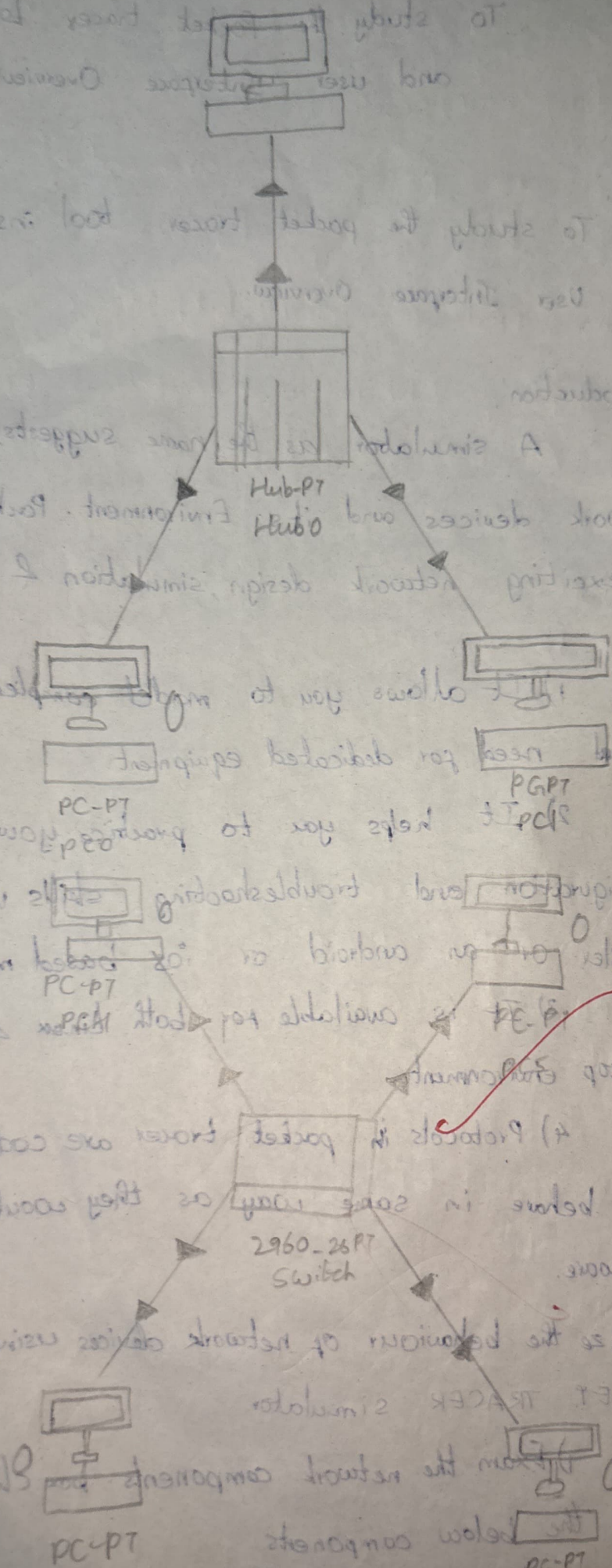
4) Protocols in packet tracer are coded to work and behave in same way as they would on real hardware.

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

1) Exam the network components box click & drag & drop the below components

a) 4 Generic PCs & one hub

b) 4 Generic PCs & One switch.


Hub-PT
Hub0
PC-PT
PC-PT
2960-24PT
Switch
PC-PT
PC5
PC-PT
PC5

2) Click on connections

a) Click on copper straight-through cable

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

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

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

Click on the PDU (message icon) from the common toolbar.

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

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

5) Repeat step #3 to step #5 for the PCs connected to the switch

Student observation:

a) From your observation write down the behavior of switch and HUB in terms of forwarding the packets received by them.

Switch forwards packets only to device with the matching MAC address using MAC table. If unknown it sends to all ports except source.

Result:

The behavior of network device (HUB & switch) was successfully analyzed using Cisco Packet tracer.

12/9/25