24/7/24

<center>PRACTICAL - 3</center>

AIM :

To study packet tracer tool Installation and user Interface overview.

ANALYZE 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 PC's and one HUB
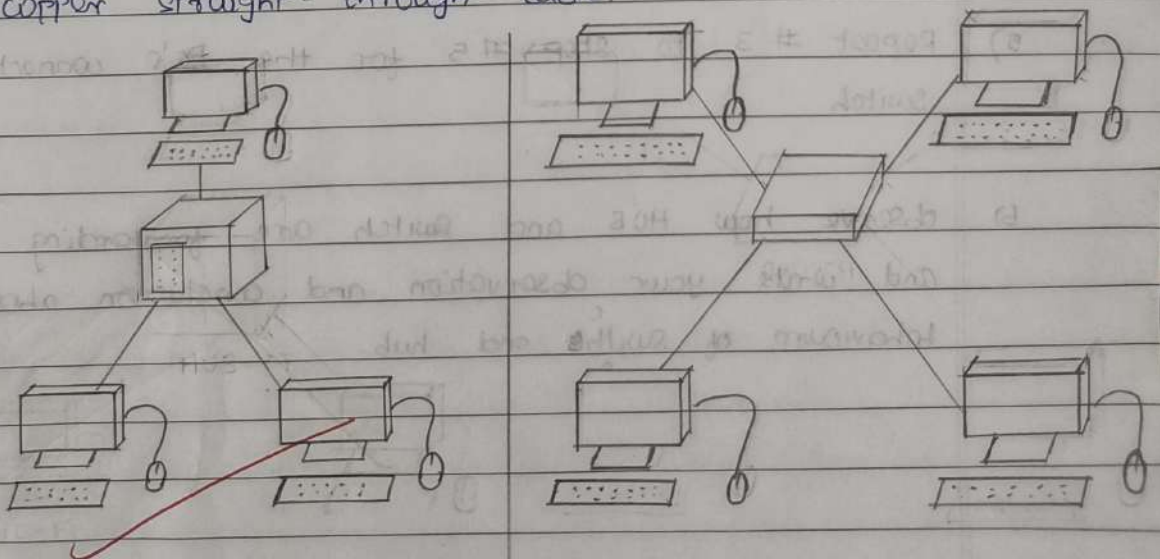
    b) 4 Generic PC's and one switch.

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 Link is up. similary connect remaining 3 PC's to the HUB.

    c) Similarly connect 4 PC's to the switch using copper straight - through cable.

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

PC0		PC1	
IP CONFIGURATION		**IP CONFIGURATION**	
O DHCP	⊙ STATIC	O DHCP	⊙ STATIC
IP Address	10.1.1.1	IP Address	10.1.1.2
Subnet Mask	255.0.0.0	Subnet Mask	255.0.0.0
Default Gateway		Default Gateway	
DNS Server.		DNS Server.	

click on the PDU (message icon) from the common tool bar,

  a) Drag and drop it on one 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 relative mode of simulation.

5) Repeat #3 to step #5 for the PC's connected to Switch

6) observe how HUB and switch are forwarding the PDU and write your observation and conclusion about the behaviours of switch and hub.

STUDENT OBSERVATION

1) From your observation write down the behaviour of Switch and Hub in terms of forwarding the packets received by them.

HUB:

The hub forwards data packets to each and every connected computer

SWITCH:

It forwards the data to specified destination

2) Find out the network topology implemented in your college and draw and label the topoloy in observation.

Mesh topology is used in our college

RESULT

Thus the study of pocket tracer tool installation and user interface overview has been executed successfully.