

PRACTICAL - 3

classmate

Date _____

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AIM:

To study the Packet tracer tool Installation & user interface . Overview.

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

1) From the network component box , click & drag the below Component

- a: 3 Generic PC's & one HUB
- b: 4 Generic PC's & one switch.

2) Click on Connection:

- a) Click on copper straight - through cable,
- b) select one of the PC & connect it to HUB using the cable . The Link LED should glow in green, indicating that the link is up, similarly connect remaining 3PC's to the HUB.
- c) Similarly connect 4PC's to the switch using straight Copper - through cable

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

Click on the PING from the Common tool box,

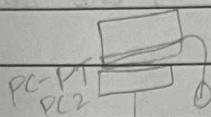
- a) Drag & drop it on one of PC and then drop it on another PC connected to the HUB

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

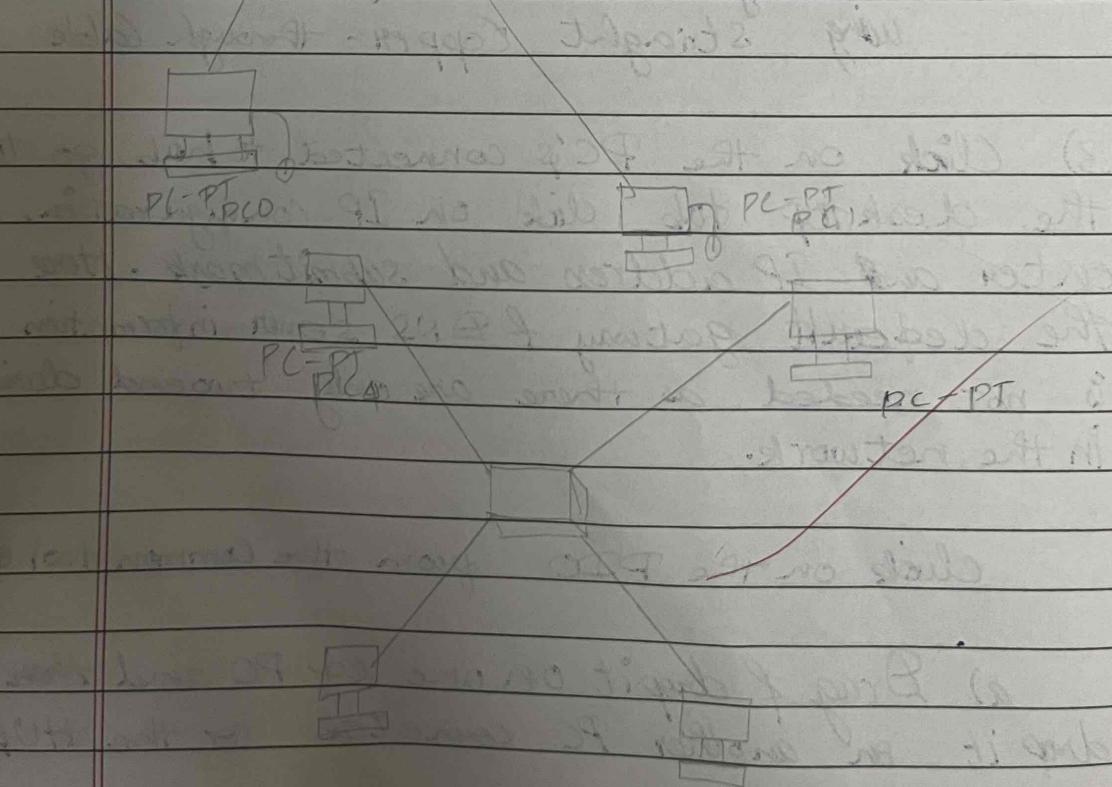
5) Repeat step 3 to steps for the PC's connected to the switch.

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

a)



b)



PC0

IP Configuration

PC1

IP configuration

IP Configuration

DHCP static

IP Address 10.1.1.1

Subnet Mask 255.0.0.0

Default Gateway

DNS Server

IP Configuration

DHCP static

IP Address 10.1.1.2

Subnet Mask 255.0.0.0

Default gateway

DNS Server

- a) From your observation write down the behaviour of switch & HUB in terms of following the packets received by them.

HUB:

The HUB forwards data packets to each and every connected computer.

SWITCH:

It forwards data to specified destination.

- b) Find out the network topology implemented in your college and draw and label that topology in your observation book.

Mesh topology is used in our college

RESULT:

Thus the study of packet traces tool installation & user interface overview has been done successfully.

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