

solution

PRACTICAL - 3

AIM

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

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

1. From the network component box, click
& drag the below component:

a: 4 Generic PC's & one HUB

b: 1 Generic PC's & one switch.

2. Click on Connections:

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 3 PC's to the HUB.

c. Similarly connect 1 PC'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 subnet mask. here the default
gateway & DNS Server information is
not needed as there are only two
end devices in the network.

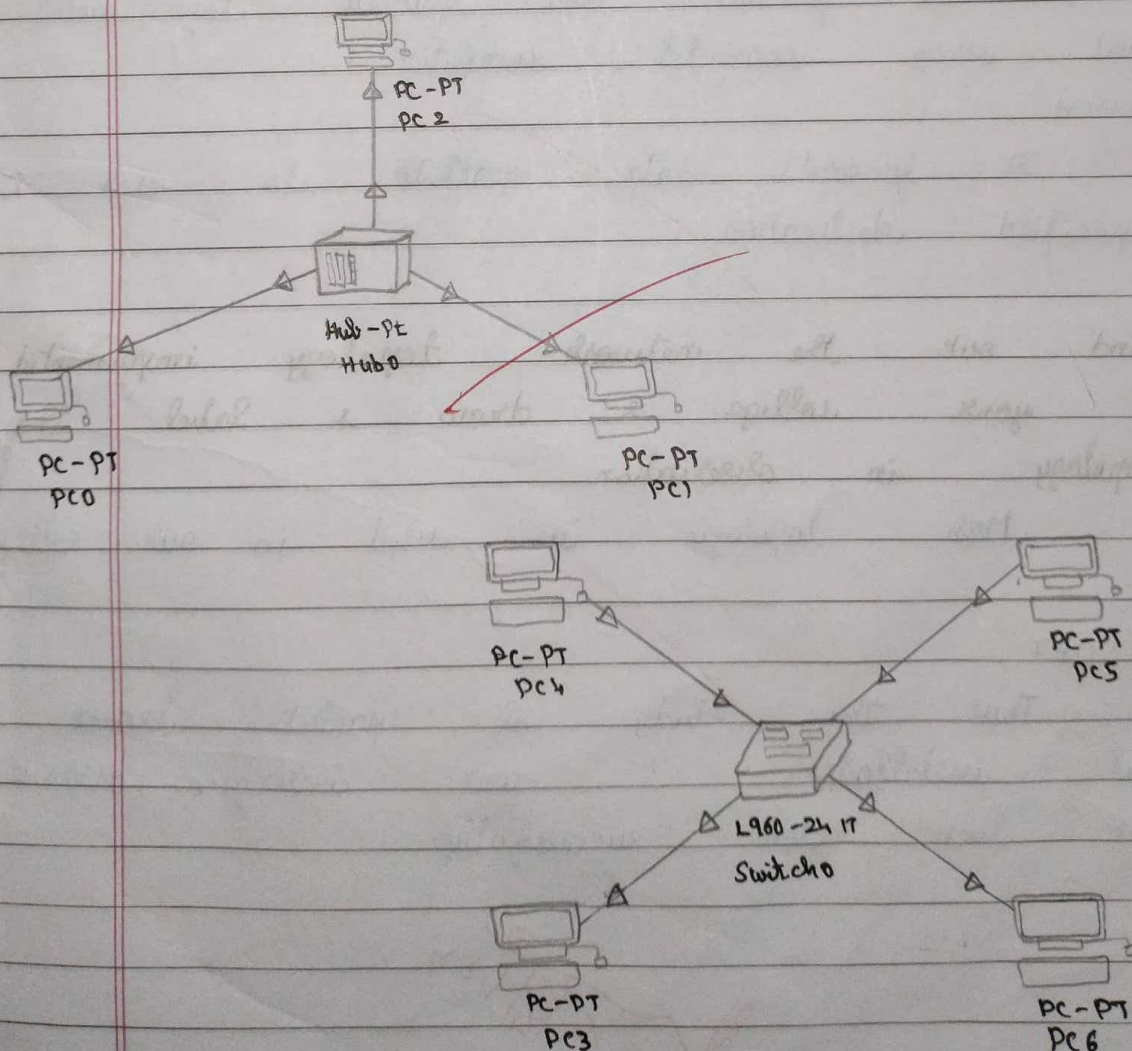
Click on the PDS from the common
Tool Box.

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 Realtime mode of simulation.

5) Repeat step 3 to step 5 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.



PC0	PC1
IP configuration	IP configuration
IP configuration	IP configuration
o DHCP o Static	o DHCP o Static
IP address <input type="text"/>	IP address <input type="text" value="10.1.1.2"/>
Subnet Mask <input type="text"/>	Subnet Mask <input type="text" value="255.00.0"/>
Default Gateway <input type="text"/>	Default Gateway <input type="text"/>
DNS Server <input type="text"/>	DNS Server <input type="text"/>

- 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 ~~packets~~ to each and specified destination.

- b. Find out the network topology implemented in your college & draw & label the topology in observation.

Mesh Topology is used in our college.

RESULT:

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

5/8/24