EX-3 CISCO Packet Tracker Simulation

Aim: To understand and study the packet tracer tool installation and user interface.

d)1. From the networks component box, click and drag & drop below the components.

a. 4 Generic PCs and one hub
b. 4 generic PC's and one switch.

2. clicks on connections.

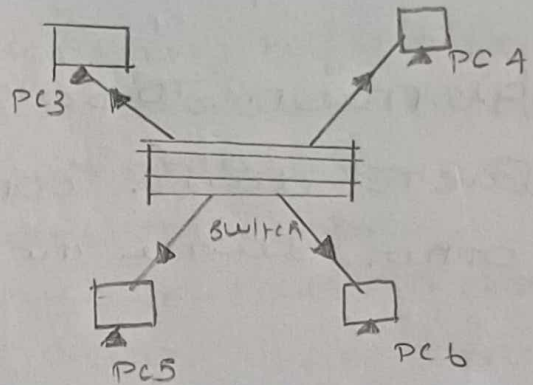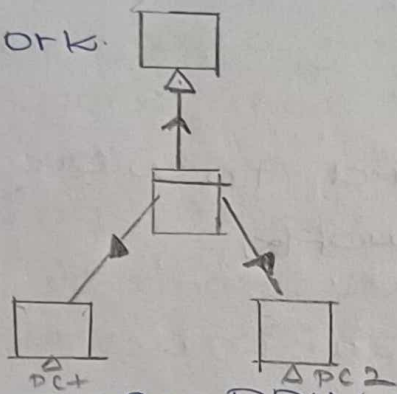a. click on copper straight - through cable.

b. Select one of the PC and connect it to Hub using the cable. The link LED should glow in green, indicating that the link is up. Similarly connect remaining 3PCS to the Hub.

c. Similarly connect 4PCS to the switch using copper straight - through cable.

PC 0	
IP configuration	
o DHCP	o Static
IP address	10.1.1.1
Subnet mask	255.0.0.0

PC 1	
IP configuration	
o DHCP	o Static
IP address	10.1.1.2
Subnet mask	255.0.0.0

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

PC3

PC4

Switch

PC5

PC6

PC1

PC2

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

a . Drag and drop it on one of PC (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
Realtime mode of simulation.

5. Repeat step # 3 to Spep # 5 for the PCs
connected to the search.

6. Observe how the HUB and switch are
Bounding the PDU and write your
observation and conclusion about
the behaviour of switch and HUB

Question & Answer

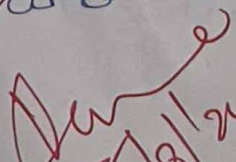a. Hub: broadcasts all the connected devices

b. 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.

5/8/24.