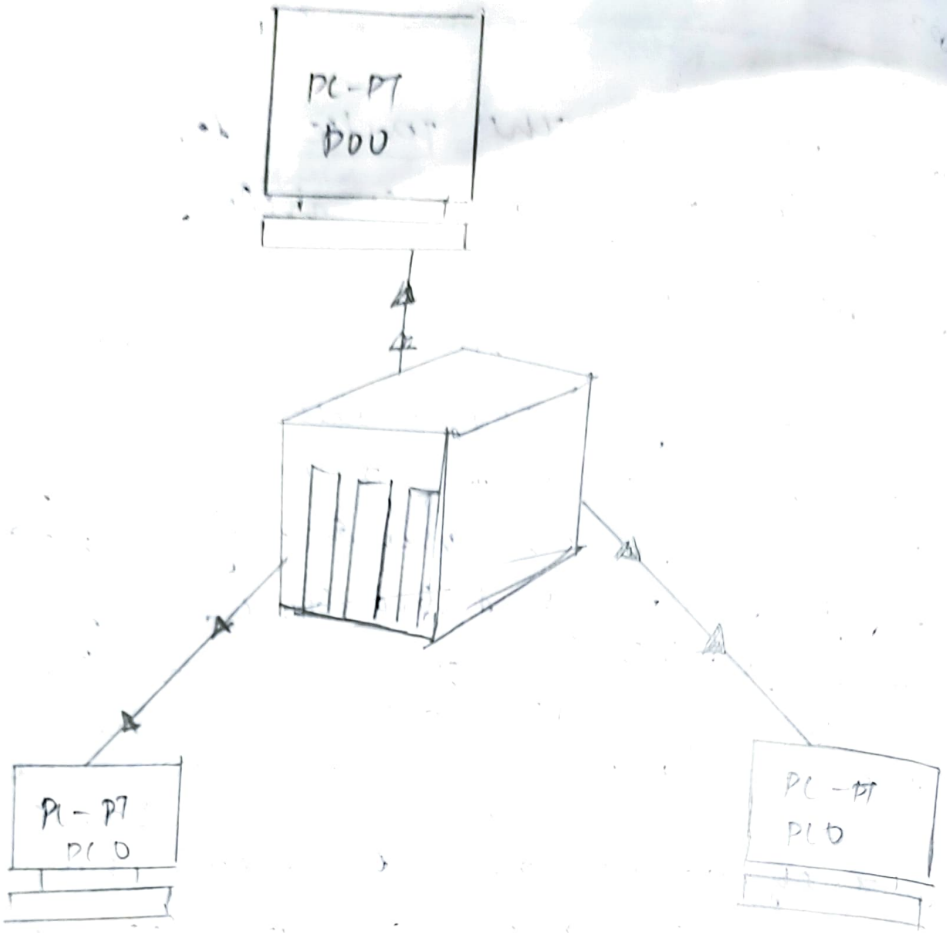
PRACTICAL - 3

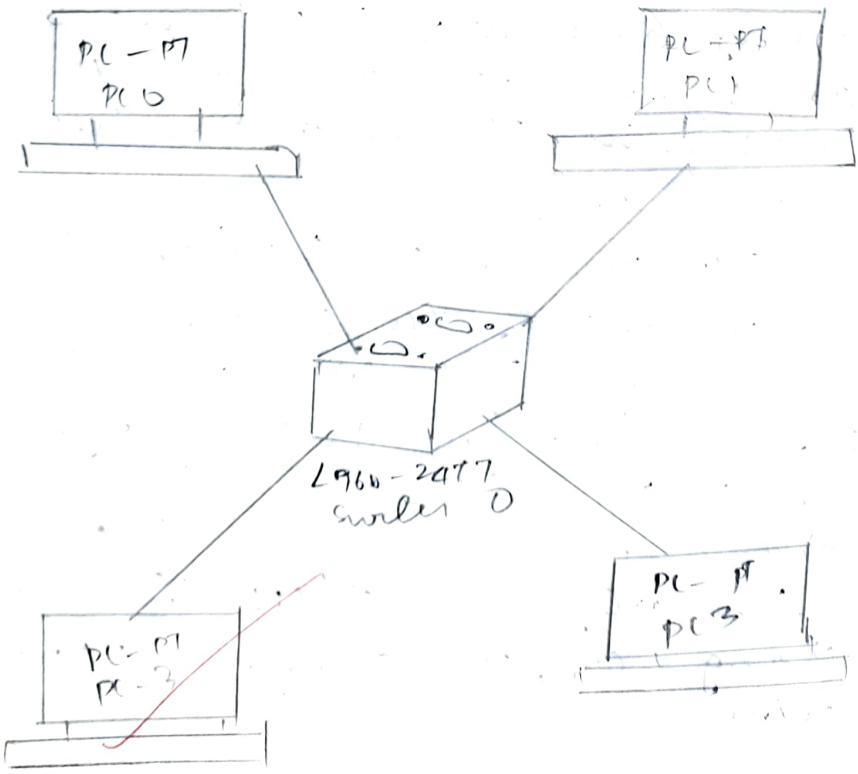
Ex No: 03
30/01/2023

AIM
To understand the packet tracer tool
to installation and user interface overview
c) To understand environment of CISCO packet
Tracer to design simple network
It allows you to model complex system
without the need for dedicated equipment
2) It helps you to practice your network
configuration and troubleshooting skills
3) It is available for both the Linux
and window desktop environment
4) Protocols in packet tracer are coded
to work and behave in the same way
as they would on a real hardware
A) Analyze the behaviour of network.
device using CISCO packet tracer simulator
1) From the network component box, click
& drag and drop the below component
a. 4 Generic pcs and one HUB
b. 4 Generic PCS and one Switches
2) Click on computer
a. click on copper straigh through
b select one of the PC and connect it
HUB using the cable. The link LED
should glow in green indicating
that the link is ok similarly
Connect remaining 3PC to the HUB
c) similarly connect 4pc to switch
using copper straight Through
cable

HUB


PC-PT
PC0
PC-PT
PC0
PC-PT
PC1

SWITCH :


PC-PT
PC0
PC-PT
PC1
2960-24TT
Switch 0
PC-PT
PC-3
PC-PT
PC3

3) check on the PCs connected to hub go to the desktop tab, click on IP configuration and enter the IP address and subnet masks check the default gateway and DNS server information is not needed as there are only two end devices in the network

PC0	PC1
IP configuration	IP configuration
IP configuration	IP configuration
○ DHCP ○ static	○ 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.

check on PDU (message icon) from common tool

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

4) Observe the flow PDU from source PC to destination PC selecting the Realtime mode of simulation

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

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

Student observation :

a) 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 on easy connected computer

SWITCHES

It forwards the data to a specified destination

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

Star topology is used in our college

15/7/24

Results

Thus the study of packet tracer tool installation and user interface overview has been successfully