CISCO Packet Tracer

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

2.) Analyse the behaviour of network devices using
CISCO packet tracer stimulator.

1.) From the network component box, click & drag
& drop the below components.

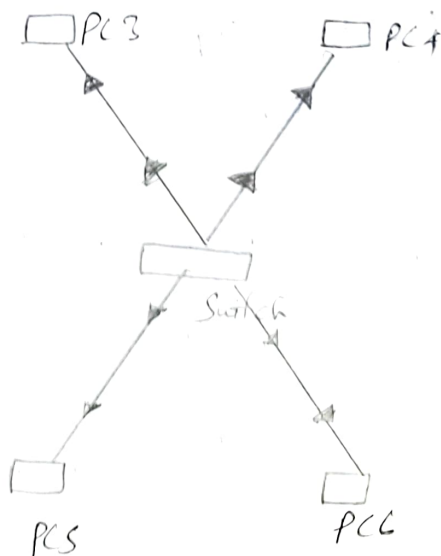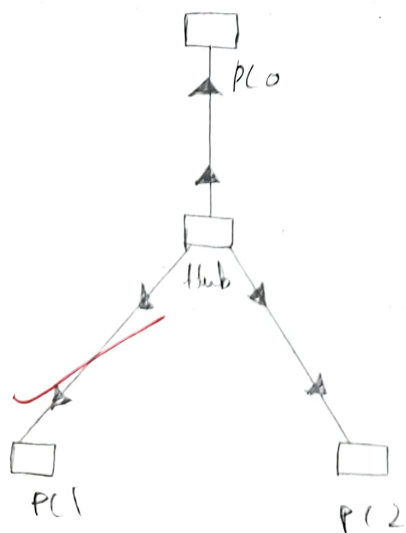   a) 4 Generic PCS & one HUB

   b) 4 Generic PCS & one switch

2.) Click on Connections:-

   a) Click on Copper straight through cable

   b) Select one of the PC & connect it to
   HUB wire the cable. The link should flow.

   c) Similarly Connect 4PC to the switch wing
   Copper straight-through cable.

PC0

Hub

PC1

PC2

PC3

PC4

Switch

PC5

PC6

3) Click on the PCS connected to hub. Click on IP Configure or enter IP, the default gateway & DNS server information is not needed as these are only class of end devices

IP Configuration

○DHCP ⊙static

IP Address
[10.1.1.1]

~~Street~~Subnet
—mask   255.0.0.0

Default gateway [____]
DNS server [____]

IP Configuration

DHCP.static

IP Address [10.1.1.2]

Subnet mask   255.000

Default gateway [____]
DNS Server [____]

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 PCC connected to switch.

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

Observation:

a) Switch: forwards packets only to the specific path
Hub: Broadcast packets to all the connected devices.

b) Mesh technology:-

In a mesh topology each device is connected
to every other device in the providing high
redundancy & reliability

&——
30/7/24

Result:-

The equipment was successfully executed
& O/P is verified.