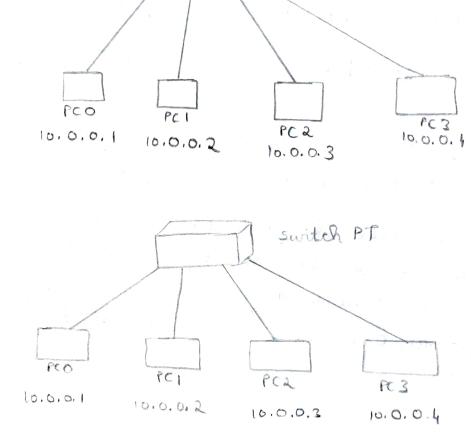
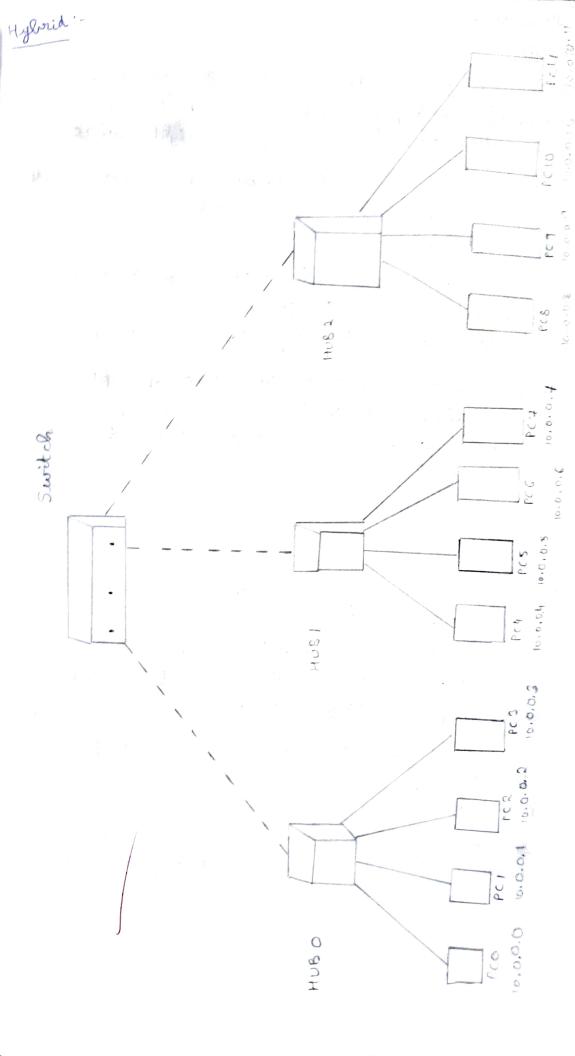
HUB O

AIM: - Greating a topology and simulate sending a simple PDU from source to distingt using hub and switch as connecting devices

Topology:-





Procedure:-\* HUB -> Place 7 generic PC's and I generic hubr in logical workspace and all 7 PC's are connected to hub, by cokker straight wire. -> Set each pels with IP addresses from 10.0.0.0 to 10.0.0.6 respectively and connect each PC to hub by copper straight wire. -> A simple PDU is placed on any a derices and missage/packet passing can be seen in simulation mode, by disking autocapture. -> In realtime mode a command frompt is opened for certain PC and following command is given to transfer message PING destination IP - addresses. \* Switch -> 4 generic PC's and one generic switch is placed on logical workspace. -> Set IP address for each PC from 10.0.0.7 to 10.0.0.10 and remnect each PC to switch using ropper straight wine. -> In simulation mode after placing simple

PDU to any a PC's click auto-capture and packet transfer can be seen.

-> In rual time mode click on any PC and open command prompt and type (PING dest IP)

5 12 PC's, 3 hubes I switch all generics are placed on to logical workspace. > 3 generic huls are connected to switch using copper aress over wine and 12 1013 are connected to 3 hules , 4 PC each using copper straight wire after assigning IP address for each PC from 10.0.0.0 to 10.0.0.11 respectively. After selecting 2 pcbs from different hubs with simple PDU's and clicking on auto-capture, packets passing simulation can be seen in simulation mode -> In real time mode open command prompt by dicking any PC -> derices -> command prompt Observations: -\* Hult Learning outame: -> After source sends message to hub its broadousted to all end devices but only destination device reads and send response back to hub for source to get response. > Hul establishes connection to end-derices quickly and signals by green light Result! -PING 10.0.0.3 PINGING 10003 with 32 bytes of data Reply from 10.0.0.3 with bytes = 32 times oms fing Statistics for 10.0.0.3 Details of how many packets sent and received.

Learning observation -

Inlike hub, switch does not give green signal immediately but takes some amount of time called learning time and the packet can be sent once green signal is generated.

Ruult :-

PING 10-0.0.5
PINGING 10-0.0.5 with 32 kytes of data:

PING STATISTICS FOR 10.0.0.3.

## Hylvid :-

## Learning outcomes:

Message sent by one PC of one hub to switch is sent to destination hub which broadcast to all derices of that hub and only destined end derices sends back response to source of other

Result :-

PING 10.0.0.4

PING ING 10.0.0.4 with 32 bytes of data

Reply from 10.0.0.4: kytes = 32

PING statistics for 10.0.0.4
"Retails of number of packets sent and seceired."

1/1/22