Experiment 3

Date: 30-7-24

To Analyse the behaviour of network device using cisco packet traces simulator

## Steps

- 1. Favor network component bose, cluck & dag & deep the below component
  - a) 4 generic PCs & one bub
  - b) 4 generic PCs 4 one Switch
  - a. Click on connections:
    - a) click on copper stought through able
- b) delect on pc & connect to HUB, The link LED should glow in green
- c) Similarly connect 4PC; to the Switch cusing copper 8-19raight through cable
- 3. Click on the PCs connected to HUB

  then click desktop' them click IP configuration
  - Cotes 10 address on 1944 address box
- a) Chok on PdU (message (con) from common tool bas

drag + drap it on one of PC & drap on

4. Observe the flow of PDU from doubles to destination by clicking simulation of on sight bottom

5. supper the Same for PCs connected to Switch

congress digitales mental

6. Observe

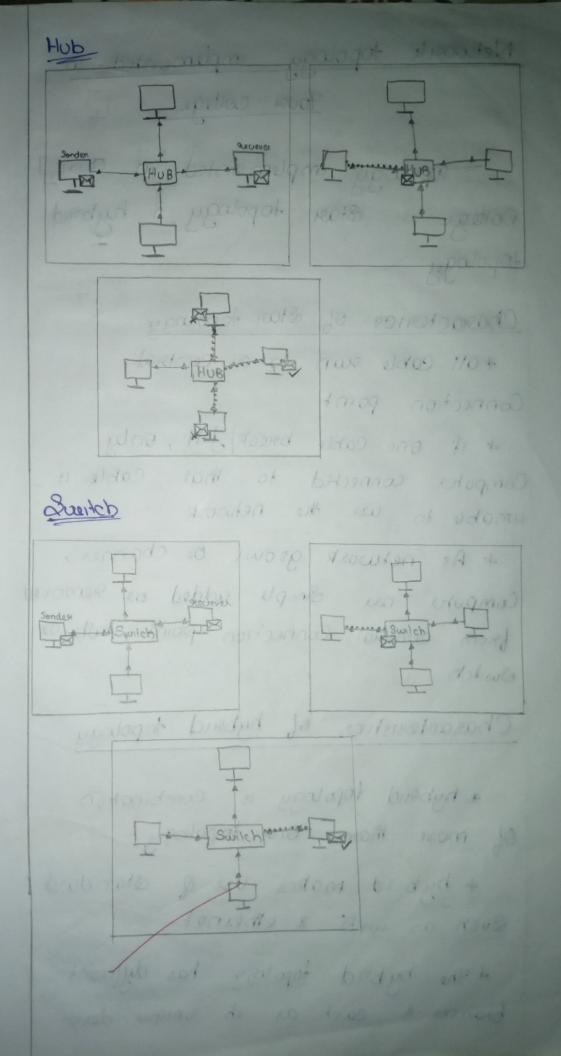
## Observation

HUB

when packed is dent from one pc,
the hob boundcasi the pocket to all
connected PCs regardless of internded
destination. This means all PCs reverse
packed byt only intended recipions
process it, others ignore it

## Switch.

Switch uses MAC address to identify devices. When a packet is deal from one PC, the devitch checks the destination MAC address and forward the packet only to the part associated with that address



repology implemented in our college is allow topology topology

Characterics of star topology

+ all cable sun to a central

Connection point

the one cable break dail, only computer connected to that cable is unable to use the network

La retwork grows or changes,

Computer our simple added or removed

brown central connection point, his or

abouter

## Characteristics of hybrid topology

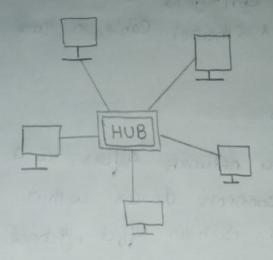
of more than one topology

\* hypord makes use of shandard Such as wifi & ethernet

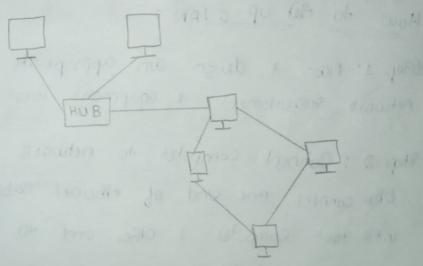
A The ryberd topology has dyferent brances & each as it unique design

Mar James

Star topology



Hybrid topology



& lla /3/24

RESULT

thus successfully studied the packet traces tool and amalysed the behaviour of network