Exno: 3

Oave: 30/07/2024

Experiments on CISCO PACKET TRACER

(Simulation tool)

Aimi

To study the Packet tracer tool
Installation and User Interface overtiem

Steps:

- 1) From the network component box, click and drag and drop the blow components.
 - a) 4 Generic Pcs and one HUB
 - b) 4 orenericles andone Switch.
- 2) Cliek on Connections.
 - a) click on coller Straight through Cable.
- b) Select one of the PC and connect it to

 HUB using the cable the link LED Should

 glow in groom, indicating that the linkish

 Similarly connect remaining 3Pcs to the

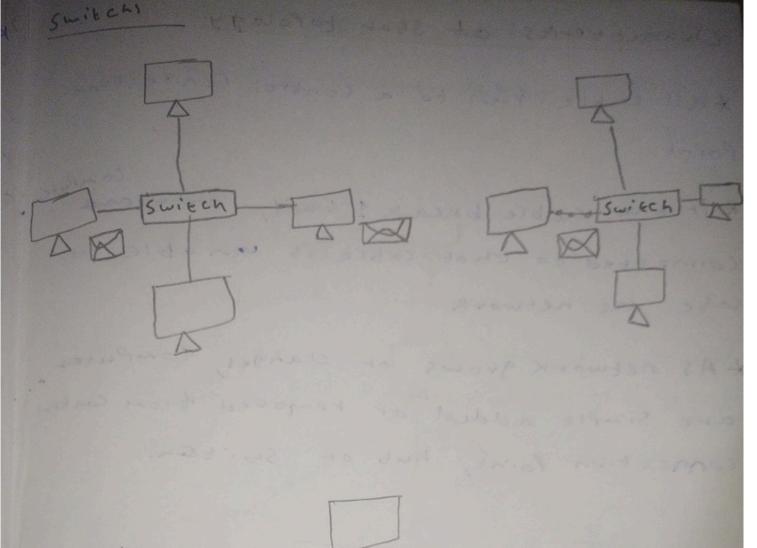
 HUB.
- c) Similarly Connect 4 Pcs to the Switch using coller Straight through cable.

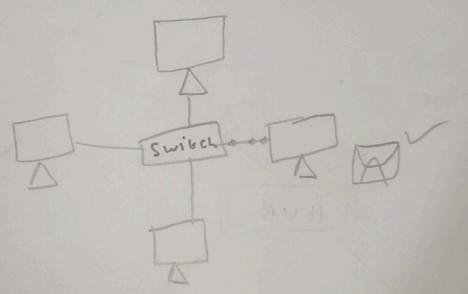
- pesked tab, Click, on I p configuration and enter an I p address and subnet mask, there the default sateway and DNS server information is not needed of knose are only kno end devices in the network. Click on the PDU (message ican) from the common tool bar, a Drag and dvop it on one of Pc (source machine) and then drop it on dnother Pc (descination machine) connected to the HUB.
- 4) 06 serve the flow of PDU from source Pc 60 destination Pc by selecting one Real bine mode of Simulation.
- 5) Re Peat Step #3 to Step #5 for the Pes Connected to be switch.
- 6) Observe how Hub and Switch are forwarding the Por and write your Observation and the Por and write your Observation and constusion about the behavioser of Switch and Hub.

Student observation:

a) from your observation write down the behaviour of switch and HuB in terms of switch and HuB in terms of some packets received by them

b) Find out the network topology implement in your college and draw and Label that topology in your observation book Hub!





Network topology implemented in your

Tolology Emplemented in one collège is

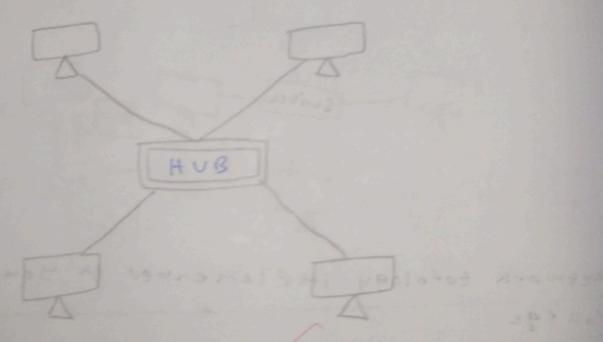
Star kopology & hybrid topology.

Characterics of Star topology

* All cubie run to a Control Connectron
Point

* if one cable break 1 tail, only one connected to that cable is manable to use the network

* As network grows or changes, computes are simple added or removed from Contra contraction Point, hub or Switch.

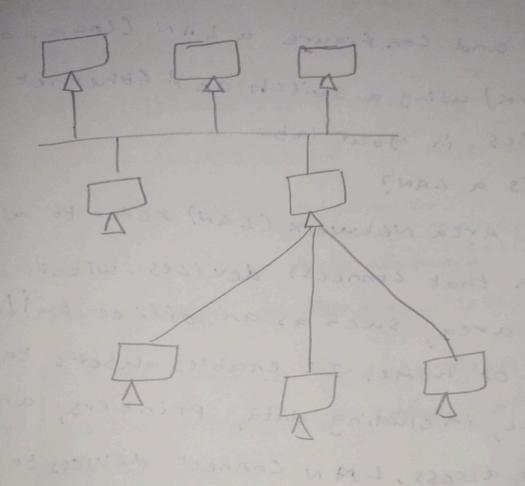


Characteristics od hybrid topology

* hybrid to lology to Combination of more than one topology.

thybria Makes use of Scamdard Such al

the hybrid to Pology has distributed branes



tow to set up a LAN;

Result!

the success fully studied the Packet that 30 Hages and analysed the behavious of network.