EXPERIMENT 03: EXPERIMENTS ON CISCO PACKET TRACER (SIMULATOR TOOL)

Aim:

PACKET TRACER Simulator

Steps:

I Forom the network components box, click and drag and drag. the below components.

a 4 Generic PCS and one thub b. 4 Generic PCS and one switch

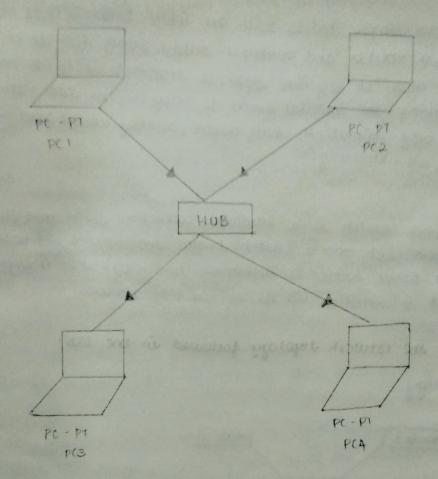
a coick on connections

a click on copper-straight through cable

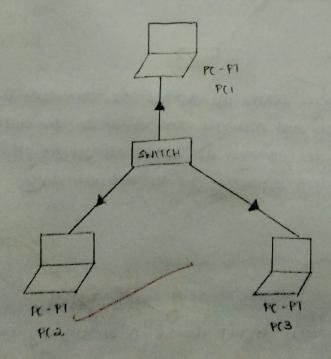
the prior of the PC and connect it to Hub using the shill are that the wall all the wall that the wall the wall that the wall the wall the wall that the wall the wall that the wall the

- Straight through Cathe
- 3 CLICK on the PCS woundled to HUB, go to the Decktop tothe CUICK on IP Configuration and enter an IP address and subnet mask there, the default gateway and DNS server information is not needed as there are only two end devices in the network
- 4. Observe the flow of prov from source pc to destination the selecting the realtime made of simulation
- 5. Repeat Step #3 to step #15 for the PCS connected to the south
- 6. Observe how HOB and switch are forwarding the PDV and write your ebtervation and conclusion

110b :



Switch:



a) From your observation write down the behaviour of switch and thus in downs of forwarding the packets succeived by them.

Ans: Hub:

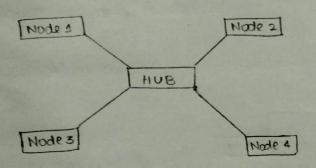
Hubs are simple devices with an input Ethernet poor that connects to a notiter and multiple output posits from devices to connect to when it receives data, it transmit it to all connect devices, teaving the intended device to recognize the data. Network hubs also only sportate in half-duplex, so they cannot send and receive data simultaneously.

switch:

A network switch is a hardware connection device that is smorter than hub once a switch knows the stoutes and ports, it reads data parket header to determine which devices it is supposed to transmit information via its unique MAC address

b) Find out the network topology followed in the lab.

Ans: Stan Topology



It is a network design where all devices are connected to a control hub on switch and messages are passed to the central wil that in twen parses the messages to either all others system or the specific destination dystem depending on the network derign

Result:

Exposiment on CISCO MICKET TRACER is succentially executed and the output is verified