To understand envidonment of CIECO PACKET TRACER to design struple network

A stimulator, as the name suggests, stimulates network desires and the environment. Parket Traces is an existing network design, stimulation and modelling tool.

- 1. It allows you to model complex systems without the need for dedicated equipment.
- 2. It helps to practite network configuration and troubleshooting skills via computer or mobile dovice.
- 3. Brotocols in Packet Tracer are coded to work and behave in the Jame ways as they would on real hardware.

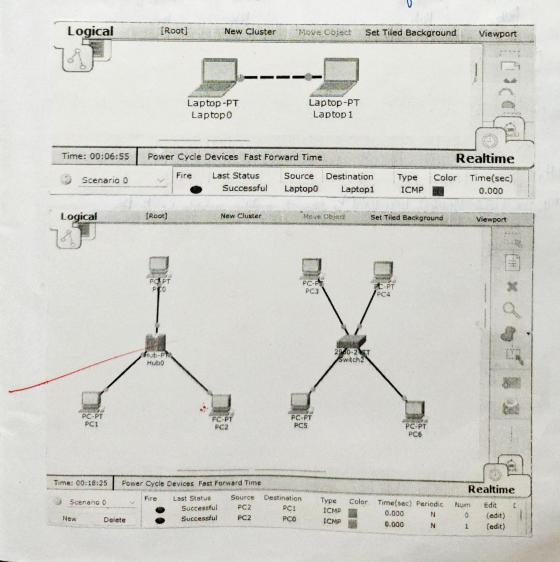
Analyse the behaviour of network devices using CISCO PACKET TRACER simulator

- 1. Brown the network, component bon, click and drag-and-drop the below components:
  - a. 4 Granora PCs and One HVB
  - b. 4 Grenora PCs and One Switch
- 2 With on Connections:
  - a. Wick on Copper Strought-Through cable.
  - b. Select one of the PC and connect it to HUB liking the cable. The link LED should glow in green, indicating that the link is up finitionly, connect remaining 3 PCE to the HUB.
  - c. Stirutorly, connect 4 PCs to the switch using copper straight-though cable.

3. Wilk on the PCs connected to hub, go to the Desktop tab, Wilk on IP Configuration, and enter an IP address and tubest mask. Here, the default gateway and DNS deriver information is not helded as there are only two end deurses in the hetwork.

click on the PDV (message slon) from the common tool bour, a. Drag and drop it one of the Pcs (source machine) and then drop it on another Pc (destination machine) connected to the HUB.

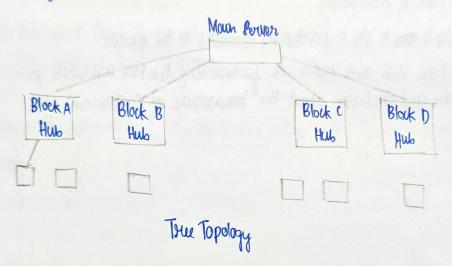
- 4. Observe the flow of PDV from downe PC to destination PC by selecting the Realtime made of simulation.
- 5. Repeat step 3 minutes to step 5 for the DCs connected to the switch.
- 6. Observe how HUB and stuffth are perwarding the PDV and write your observation and conclusion about the behaviours of Switch and HUB.



1. From your observation, wente down the behavior of stutch and hub in terms of formarding the packets received by them.

Both switch and hub ack as the central controller for all the PCs (hodes) connected through them. Messages are forwarded in a very instant manner and an amination is shown in real time.

2. Find out the network topology implemented in your college and draw and label the topology.



Result: Henu, the (1900 Tracker was used to connect switches and hubs to PCO.

