30/7/24 PRACTICAL - 3 EXPERIMENT ON CISCO PACKET TRACER (SIMULATION TO OL) a) To understand environment of CISCO PACKET TRACER to design simple network. Introduction: A simulator, as the name suggests simulates network devices and its enveronmy Packet traigr is an exciting network during simulation and modelling tool 1) It allows you to model complex systems without the need for dedicated equipment 2) It helps you to practice your network configuration & trouble shooting skills via computer or an android or ios based mobile device 3) It is available for both the linux and windows desktop environment 4) Protocok in transfer are goded to work and behave in the same way as they would on real hardware

user interface overview: The layout of Packet tracer is devided into 1. Menu bar - this bar provides shortcut icons to mence options that are commonly entered 2. Main toolbar - Provide shortful to menu options common to entering network information 3. Logical / Physical works pace tubs - These tub allow you to toggle between the togical & physical 4. Workspace - This is the area where topologies are oceated and simulations are displayed 5. Common tools bour - Provide controls for manipulating topologies, such as select, move layout, place note, delete. 6. Real - time / Simulations tabs - Used to toggle between the real and simulation moder 7. Network component box - Contains all the retwork and devices available. Two Areas: Area 7a: Device type section-box. Area 7b: Perice-specific solection box-when a device category is selected, this selection box desplays models within that category 8. User-created packet box - Veers can create highlycustomized packets to test their topology.

b) malyse the behaviour of network dexices using used packet tracer simulator 1. From the network component box, yest and drag and drop the below components a) 4 Generic PCs and one HUB b) a General PCs and one switch 2. Click on connections: a) cleck on copper straight - through cable b) select one of the PC and connect it to HUB using the cable. The 19nt LED should glow in green, indicating that the lent is up, cimilarly connect remaining 3 pcs to the Hub. c) similarly connect 4 pcs to the Switch using copper straight through cable 3. Uset on the PCS connected to the hub Go to the desktop tab, click on the IP configuration and enter an IP address and subnet mast these the default gerteway and Drs server information is not needed as there are only must end devices in the network

attck on the PDV (message icon) from the common toolban. a) Drag and drop it on one of PC Csounce machine) and then drop it on another Pc latertination machine) wanted to the HUB. 4. Observe the flow of PPU from source PC to destination PC by selecting the realtime mode of simulator 5. Repeat step # 3 to step# 5 for the PCS connected to the switch. 6. Observe how HuB and switch are forwarding the PDU and write your observation and conclusion about the behaviour of switch a HUB.





