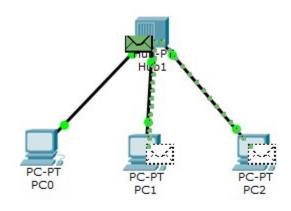
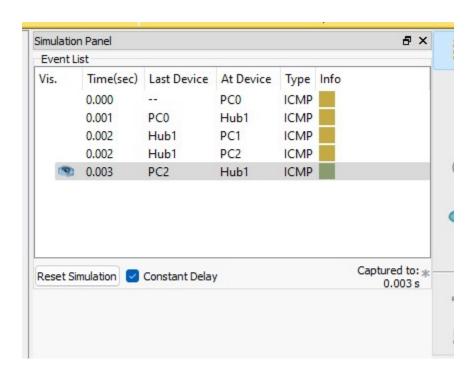
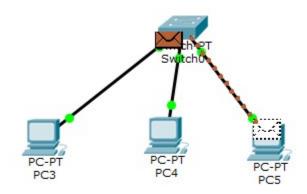
LAB1: Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices and demonstrate the ping message.

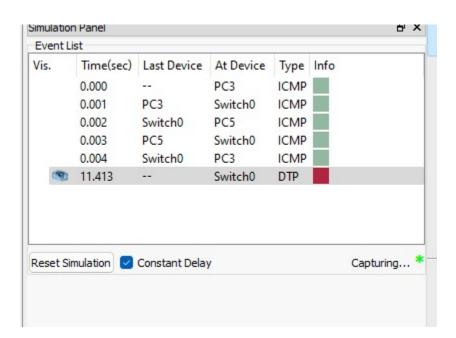
Topology with Hub as connecting Device:



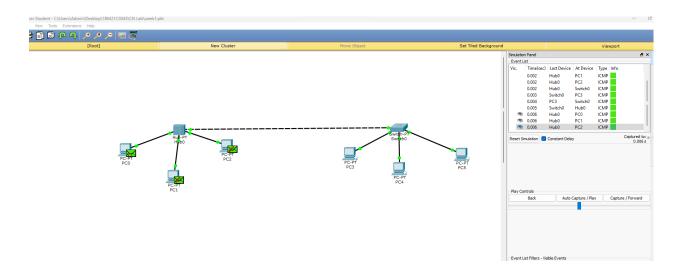


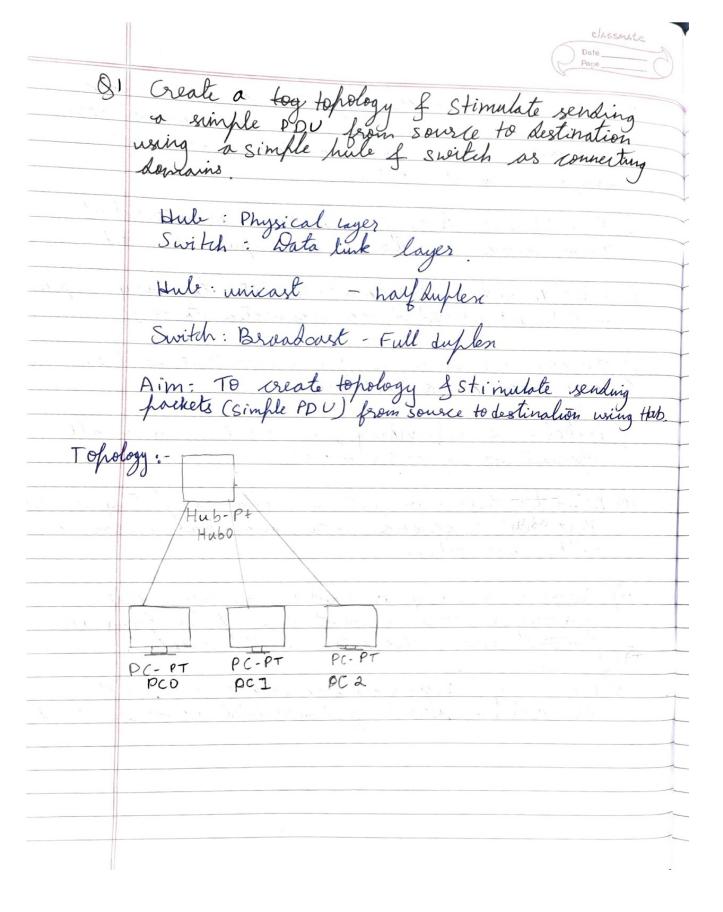
Topology with Switch as connecting Device:





Topology with Switch and Hub together:







sent to PCO and PCI. PCO accepts it and PCI rejuts it Ping Durlput: - PC> ping 10.0.0.2 10.0.0.2 with 32 bytes of data: Reply from 10.0.0.2: bytes = 32 time = oms TTL = 128 Reply from 10.0.0.2: bytes = 32 time = ome TTL= 128 Reply from 10.0.0.2: bytes = 32 time = Oms TTL = 128 Reply from 10.0.0. a: bytes = 32 time = Om TTL=128 Ping statistics for 10.0.0.2: Packets: Sent = 4, Received = 4, Lost = O(0% Loss), Approximate round trip times in milli-seconds: Minimum = 0 ms, Maximum = 0 ms, Average = 0 ms Switch - 3PCS Proadure: Step 1: The network is Step 2: Select Generic Switch - PT and place these devices in the workspace Step 3: Now, connect the 3PCs to the Copper Straight through Calole wire PC3- Porto, Pt. In Switch: PC3 - FastEthernet 0/1, PCA - FastEthernet 1/1 PC5- Fast Ethernet 2/1 In PC - choose PastEthernet O connection window of all PCS Step 4 - Open config and in FastEfferneto, set IP addresses PC3-10.0.0.4, PC4-10.0.0.5 PC 5-10.0.0.6 Then click on DNS server



	Pags Pags
St	step 3 - Add a Simple PDV from Pc 3 to PCS. Lep 6: In Simulation 1
/1	Play,
	Topology
	Switch-PT
	Switch D
	PC-PT PC-PT PC3 PC4 PC5
	Marchael Sal And Joseph
P	ing Duthut in real time mode: In PC 3
f	PC > ping 10.0.0.6
	Pinging 10.0.0.6 with 32 bytes of data.
	Reply from 10.0.0.6: bytes = 32 time = 0 ms TTL = 128 - Reply from 10.0.0.6: bytes = 32 time = 0 me TTL - 128 -
	Refly from 10.0.0.6: bytes = 32 time = 0 ms TTL = 128 - Refly from 10.0.0.6: bytes = 32 time = 0 me TTL - 128 - Kefly from 10.0.0.6; bytes = 32 time = 0 ms TTL = 128 - Refly from 10.0.0.6; bytes = 32 time = 0 ms TTL = 128
	Ping statistics for 10.0.0.6:



Roparkets: Set Sent = 4, Received = 4, Lost = O(0% loss) Approximate round trip times in willi-seconds: Minimum = 0 ms, Maximum = 0 ms, werage = 0 mg Ofservation PC 3 to PC 5 -> PC3 sends a packet to Switch O > switch o sends the packets to all, device (PC 4, PC5) in first time. > PC5 accepts and sends acknowledgment. -> Switch sends it to all put PC3 accepts -> From rest time Switch leasens the Devices of it sends packets only to correct source devices as it is smart Aim: Connecting Aulo and Switch Topology: Hub-Pt Hubp PC-PT DC-PT PC-PT PC-PT PC - PT PC-PT PC3 PC4 PC5 PCO PCI PCZ

Procedure Step 1: Prevously obtained Hule topology and switch topology are connected using Copper-cross over cable

Port 3-hule to Fast Ethernet 3/1. Step 2: Add simple PDU from PCO to PC3. Ping output ping 10.0-0.4 Pinging 10.0.0.4 with 32 bytes of data: TTL = 128 Reply from 10.0.0.4: bytes = 32 time 1/ms Reply from 10.0.0.4: bytes = 32 time=Ome TTL = 128
Reply from 10.0.0.4: bytes = 32 time=3ms TTL = 128 Reply from 10.0.0.4: bytes = 32 time = 0 ms TTL = 125 Ping Statistics for 10-0.0.4:

Packels: Sent = 4, Feccived = 4, Lost = 0 (0% lost),

Approximate round trip times in willi-seconds: Minimum = 0ms, Maximum = 3 mg, Average = 1 ms Objectation: PCO to PC3 -> PCO sends PCO to Packet to Hub O. It > Hubo sends the packets to all PCI, PC2 and Switch > switch rends the packets to all PC3, PC4, pCS at first instance > P(3 occepts the packet and it is sent



	PCO via pub O. But Hub o also sende it to PCI and PC2 as well where it is rejected
	PCI and PC2 as well where it is rejected
7	On the second instance, PCO sends packet
	ogain to Aule 1. It sends to all PI, PCZ, & PC3 pcf and Switch. Switch sends to only PC3 as it has already learnt about the Alvice and acknologement is sent via the Hubo sends it to all, where PCO accepte
	pc3, pc4 and Swelch. Swelch server to only
	PCZ as it has already reason about the
	device and acknowledgement is seen that the
	Hub O sents it to till, with
	it and so on.
	N 120 th
	1
	3 3 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1