Execute Experiment on Hubs & Switches Aim: To Create a Fopology & Simulate Sending a Simple PDV from Source to dest using Hubs & & witch as connecting devices Popdogy = Hub PC PC2 [PC3] -10.0.0.1 10.0.0.2 10.0.0.3 10-0-0.11 PCD PCZ PCZ PCZ Procedure - From bottom left coiner Click on thub & select first generic hub a place it Now dish on and devices select tilest opportion PC & place it on he screen, seperat this for as Now drok on wiseley connection 4 select copper Struight - Through & comment the PC's to the Hub Clock on the pc i-> config -> Fast Etheraet o > Type IP address for each PC Similarly, Click on souther on bothom reftichers A select first generic south a place is on the Then add PC's , enter their IP address a connect them to the South by copper shaight through convection

Switch to Simulation Click add simple PDU a select source a destina PC's a then click Auto Capture [Play Dothe same for switch network also. Switch to seal time Click on either PC of either network -> Desk top.)
Command Prompt & type "Bing & IP addrew of an another PC Repeat this for switch to retwork too. Observation HUB: Kesult PC7ping 10.0.0.3 Pinging 10.0,0.3 with 32 bytes of data: Reply from 10.0-0.3: bytes = 32 time zons TTL: Reply from 10.0-0-3: bytes= 32 Ame 20mg TTLHE Reply from 10.0.0.3: System = 32 time some TTLE Reply from 10-0-0-3: bytes=32 time=oms TTL: Leahning - We can only select use copper strugget - threed In simulation if were send PDV from the PE to anoth the merreage is sent to all other menages PCG The marsage is rejected by the other PC's which weren't releated to receive If we are ont of Ports -> Cleck the Hub -> Physical-> Turn off the saucht drag the gost from soften sights the Endo the empty slots. I then there on the switch

Switch: Kesult PC= Ping 10-0.0.02 Pringing 10.0.0.12 with 32 byter of data; Reply from 10.0.0.12: bytes 232 time/msTTL=128 Keply from 10.0.0.12: by tes=32 Hime=0ms TTZ=128 Reply from co.0.0012: Tyles=32 time 20mg TTC=128 Reply from 10.0.0.(2: bytes=32 time=0ms TTL=128 · Copper strught therough connection is to be used In simulation send PDU from one oc to another Simulation Shows how the message is sent to be corcer nis accepted a the Reply is sent back to the source The light will be ambes colored for some time after ismade tonnection ten then thoms to green after it accepts the connection Differences Switch 1) light is a finher in beginning after later turns green Hob i) tight hours green as soon as its connected 25 53 an intelligent device 2) Mub is not an sutelligant denoce gives mensages to all send the message only to that denice that is selected as the derivar seceives