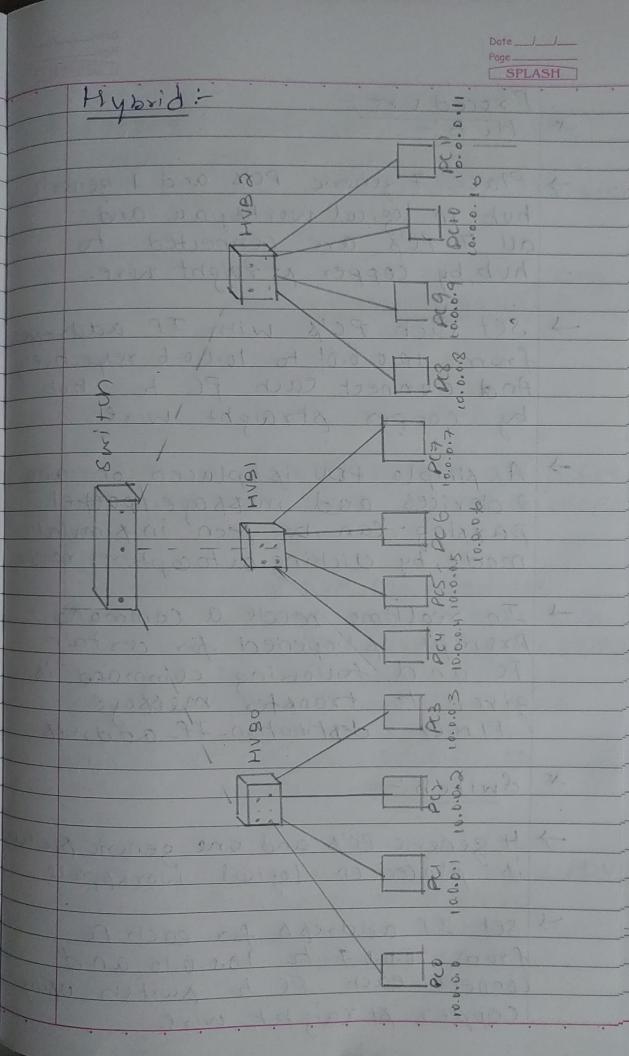
10/11/22 EXPERIMENT-1 SPLASH Aim: Creating a topology and simulate sending a pinople PDU from source to destination Using hub and switch as connecting devices. Topology -HUBO Hub: PC3 10.0.0.3 10.0.0.4 Switch Switch-PT Bwitch-D PCI PCZ PC3 10.0.0.4 10-0.0-1 10.0.0.3 10-0-0-2



Procedure:

- > Place 7 generic Pc's and I generic
  hub in logical workspau and
  au 7 pc's are connected to
  hub, by copper straight wire.
- Jet each PC's with IP addresses

  from 10.0.0.0 to 10.0.0.6 respectively.

  And connect each PC to hub

  by copper straight wire.
  - A simple PDU is placed on any 2 devices and message/packet passing can be seen in simulation mode, by dicking autocapture. missie.
- To realtime mode a command

  prompt is opened for certain

  PC and following command is

  given to transfer message

  PING destination—IP—address
- \* Switch:
- is placed on logical workspace.
- Set IP address for each PC
  from 10.0.0.7 to 10.0.0.10 and
  connect each PC to switch using
  copper straight wire.

- In simulation mode after placing
  simple PDU to any 2 PC's, click
  auto-capture and packer transfer
  can be seen.
- To real-time mode click, on any
  PC and open command prompt
  and type PING dest. IP to
  send message
- \* Hybrid :- washuo salas
- 7 12 PC's, 3-hubp, 1-pwitch all generic are placed onto logical worksp-
- 3-generic hubs are connected to

  &witch Fra Uping copper (ross-over

  wire and 12 PC/s are connected

  to 3 hubs, 4PC each uping

  copper straight wire after

  assigning IP address for

  each pt from 10.0.00 to

  10.0.0.11 respectively.
- After selecting 2 PC's from

  different hupp with simple-PDU

  and clicking on auto-capture,

  packets passing simulation can

  be seen in simulation mode.

To real-time mode open command prompt by clicking any perices - command prompt and type 'PING dept. IP-addreps to pend packet.

Observations:

\* Hub:

Learning outcome:

-> After pource pends message to hub

its broadcapted to all end derices

but only destination derice reads

and send response back to

hub for pource to get response.

-> Hub establishes connection to

end-derices quickly and signals

by green-light.

Repult:

PING 10.0.0.3

PINGING 10.0.0.3 With 32 bytes of data REPLY FROM 10.0.0.3 bytes=32 time=0 ms

PING STATISTICS FOR 10.0.0.3: Details of how many packets
Sent and received!

\* Switch + ho has been all a learning observation--> Unlike hub, puitch doep not give green signal immediately but takes some amount of time called barning time and the
the packents can be pent once
green signal is generated. + Initially switch also broadcapts for all end-devices and the next Time the communication happens and methage patting happens only between pource and destination devices. Repult: PING 10.0.0.5 PINGING 10.0.0.5 with 32 bytep of data ping STATISTICS FOR 10.0.0.3: "Details of how many packets bent and seceived." \* Hybrid!-Message sent by one PC of one hub to see is sent to sky bout destinati-

ton hub which broad cast to all

devices of that hub and

only destined end-devices sends back respond to source of other hub. Repult : 7 mm 4 por war 691/1 PING 10.0.0.24 PINGING 10.0.0.4 with 3a bytes of data REPLY from 10.0.0-4: bytes = 32 PING STATISTES FOR 10.0.0.4".
"Details of number of packets sent and received CING STATISTICS FOR 18.0.6.3 Acord and Accessed to Applicate