LaB-1 -T0 demonstrate the transmission of a simple PDU between 2 devices connect using a hub and a switch

Using HUB=>
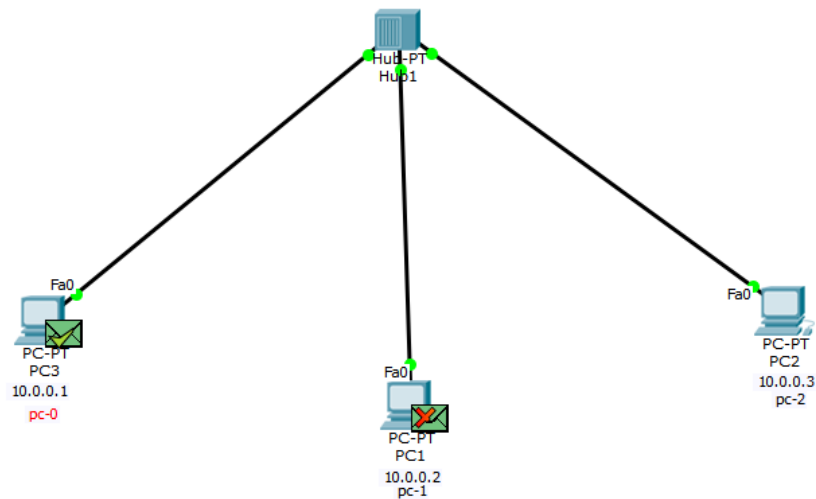

Fig-1 PDU between 2 devices connect using HUB
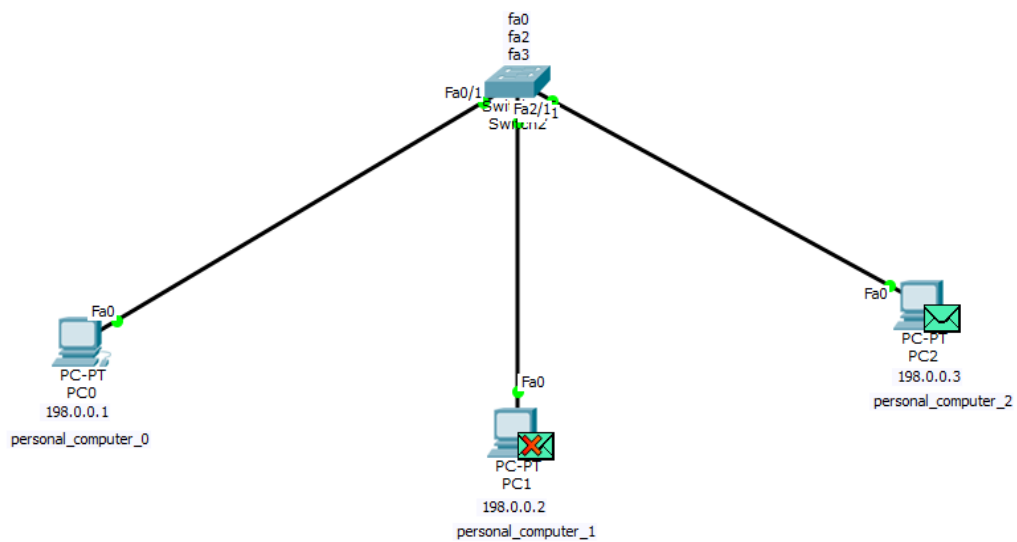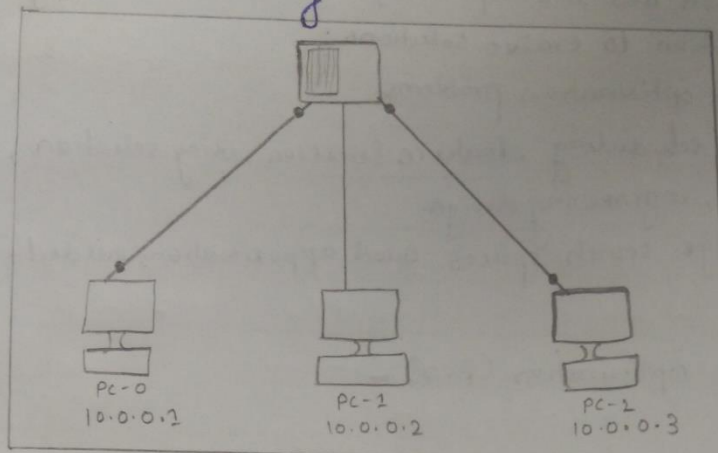
Using Switch=>

Fig-1 PDU between 2 devices connect using HUB

LAB-1 – to demonstrate the transmission of a simple PDU b/w 2
address connected using a hub and a switch

Using →
Hub

Pc-0
10.0.0.1

Pc-1
10.0.0.2

Pc-2
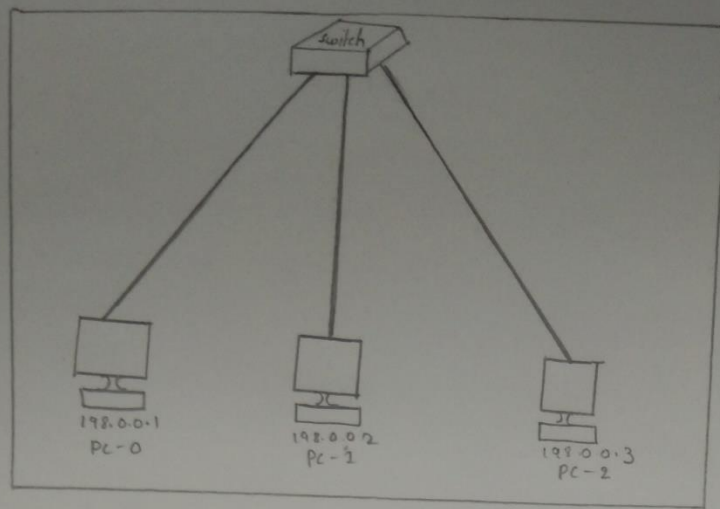10.0.0.3

Above showed topology will be the star topologies

Steps to configure →

* go to End devices and to click on pc and select 3 Pc
  drag and place it on real time (only one port) (Maximum 6 ports)

* go to the connecting device and take one hub and drag and
  place it on the realtime. and take copper straight-through conned with hubghs

* click on first pc-0 and go to config

* where click on fast Etherneto and where IP address should
  be 10.0.0.1 and subnet Mask will be 255.0.0.0.

* similar It should be for pc-1 and pc-2 whose IP address
  shou and subnet Mask should be- 10.0.0.1 & 255.0.0.0
  for Pc-2 It should be- 10.0.0.3 and 255.0.0.0

* go to the sim PUD. click on simple PDO

* That PDU will be from Pc-0 to Pc-2

* Then we go to the simulation and click on Auto capture/play

* observation

* where Msg will be passing from pc-0 to both pc-1 and pc-2
  when It reach It Mark X For pc-1 and ✓ for Pc-2
  because hub doesn't have IPaddress so that reason Msg will send to
  the every pc present in the network

using switch

```
          switch

198.0.0.1      198.0.0.2         198.0.0.3
Pc - 0          Pc - 1            Pc - 2
```

observation →

* How the Msg will transfers to the pc-0 to Pc-2 →
* go to the simulations.
  click on Message option click on pc-0 to pc-2
      or PDU
* on in simulations click on the Auto capture/play.
* where PDU packet will be pass from pc-0 to the pc-2
* switch will have some Intligence so It transfer the Direct and
  connect destinatin
* switch have a Idea about IP address It transfer the Msg to
  direct destination IP address.
* Where PUD will transfers directly from PCo to the Pc2. through
  switch.

1/10/24

3