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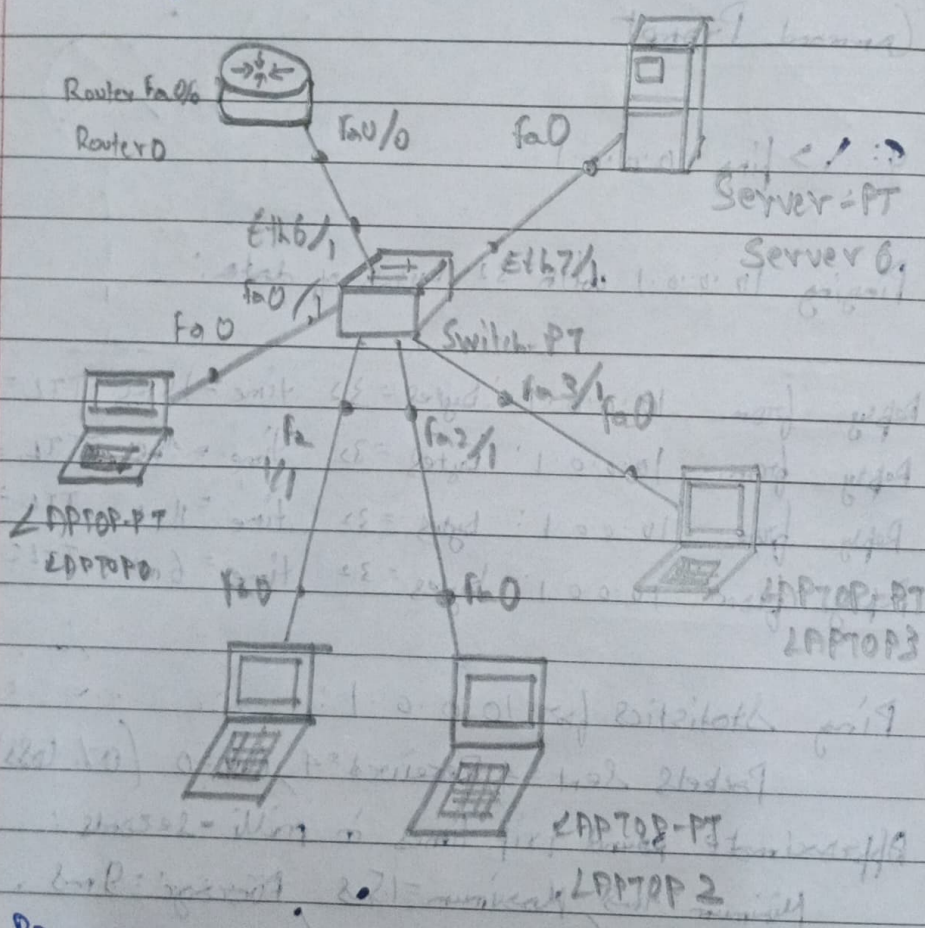
## LAB-6

Configuring a DHCP within a LAN using Packet Tracer.

DHCP (Dynamic Host Configuration Protocol)

DORA (Discover Offer Request Acknowledge)

Topology:



PROCEDURE:

1. Create a topology of 4 end devices, 1 switch, 1 router and 1 server.

2. Connect the switch to all the end devices and also the server and router.

3. Configuration of router:

Router > enable

Router # config terminal



Router (config-if) # interface fastEthernet 0/0

Router (config-if) # IP address 10.0.0.1 255.0.0.0

Router (config-if) # no shutdown

Router (config-if) # exit

### Configuration of Server:

> Go to config panel and select fast Ethernet 0.

> Enter the IP address as 10.0.0.1 with subnet mask of 255.0.0.0.

### Configuration of Server (DHCP).

Select server and go to service.

Click on DHCP and turn the service on.

Select the Default gateway as 10.0.0.1.

Set the DNS server as 10.0.0.2.

Set the start IP address as 10.0.0.3 with subnet mask 255.0.0.0.

Set the TFTP server as 10.0.0.2.

Save and exit.

### Configuration of End Devices

Select the end device and go to desktop.

Go to IP config and change it from static to dynamic, wait until request is successful.

### Observation:

The IP addresses to the end devices were dynamically assigned using DHCP.

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