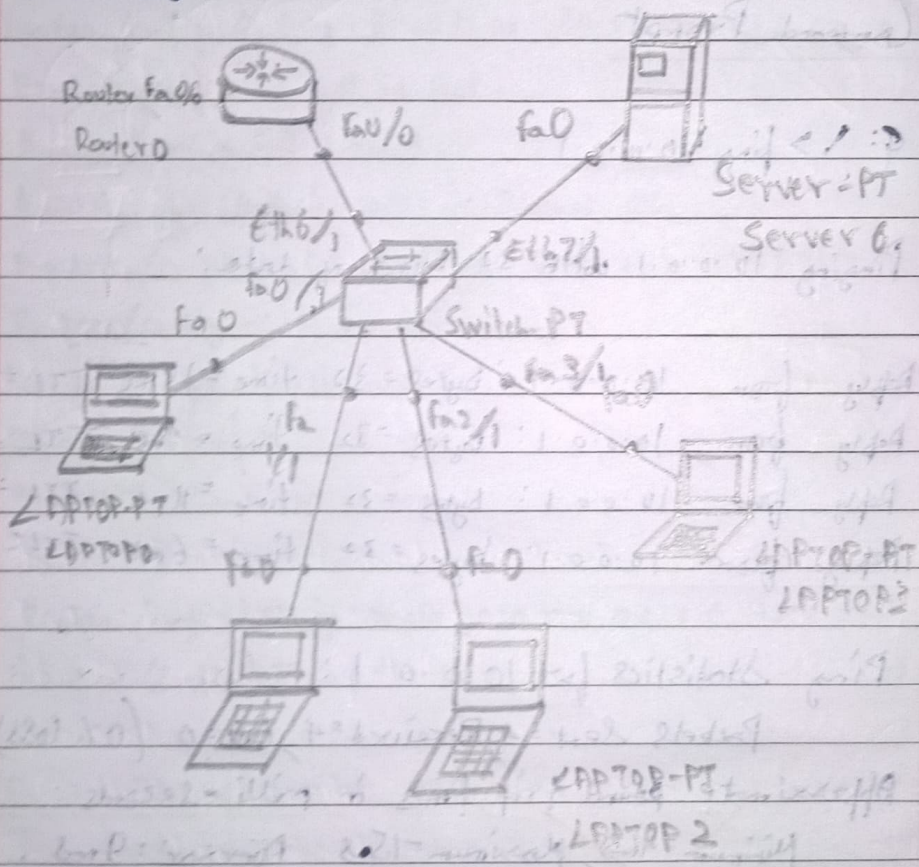## LAB-6

Configuring a DHCP within a LAN using Packet tracer.

DHCP ( Dynamic host Configuration protocol )
DORA ( Discover offer Request (Acknowledge)

Topology :



Router Fa0/0
Router0

Eth0/0   fa0
                    Server-PT
                    Server 6,
Eth0/1   Eth7/1
Fa 0     Switch-PT

LAPTOP-PT        fa3/1
LAPTOP0                  fa0
                         LAPTOP-PT
                         LAPTOP2

                    LAPTOP-PT
                    LAPTOP 2

## PROCEDURE :

- Create a topology of 4 end devices, 1 switch, 1 router and 1 server.
- Connect the switch to all the end devices and also the server and router.
- 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 of 10.0.0.2 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.

8/12/2