ACTIVITY # 5

Configuring DHCP server on a Router

1. Build a network topology:
    -   1 router
    -   1 switch
    -   Minimun of 5 PCs

2. On the router, configure *interface fa0/0* to act as the default gateway for our LAN.
3. Configure DHCP server on the Router. In the server we will define a **DHCP pool** of IP addresses to be assigned to hosts, a **Default gateway** for the LAN and a **DNS Server**.

Note:We can add ip dhcp excluded-address command to our configuration so as to configure the router to exclude addresses 192.168.100.1 through 192.168.100.10 when assigning addresses to clients. The **ip dhcp excluded-address** command may be used to reserve addresses that are statically assigned to key hosts.

So add the above command under the **global configuration mode.**

4. Now go to every PC and on their **IP configuration** tabs, enable **DHCP**. Every PC should be able to obtain an IP address, default gateway and DNS server