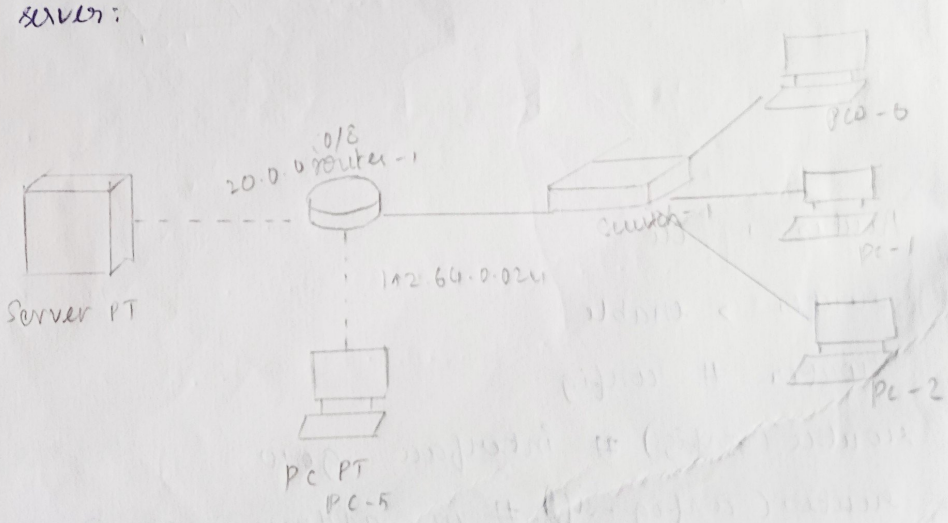
Date : 4/10/24

10)b) Design and implement DHCP using wireless router, DHCP server and internet cloud

Device	Interface	IP address	Subnet mask	Default Gateway
PC	Ethernet0	DHCP		192.168.0.1
wireless router	LAN	192.168.0.1	255.255.255.0	
wireless router	Internet	DHCP		
cisco com server	Ethernet0	208.67.220.220	255.255.255.0	
Laptop	wireless	DHCP		

DHCP server:



Objectives:

Part 1 : Build a simple network in the logical topology interface

Part 2 : configure the network devices

Part 3 : Test connectivity between network devices

Part 4 : Save the file and close packet tracer.

Student Observation:

1) * Wireless router: Set SSID, enable security (WPA/WPA2) select channel and configure MAC
* DHCP server: Define IP range, lease time, gateway, DNS and assign static IPs for critical devices.

2) Significance of DHCP server:
DHCP automate IP assignment, prevent conflicts and simplifies network setup especially in large network.

RESULT:
Thus the implementation of DHCP using wireless router, DHCP server and internet cloud is done successfully.