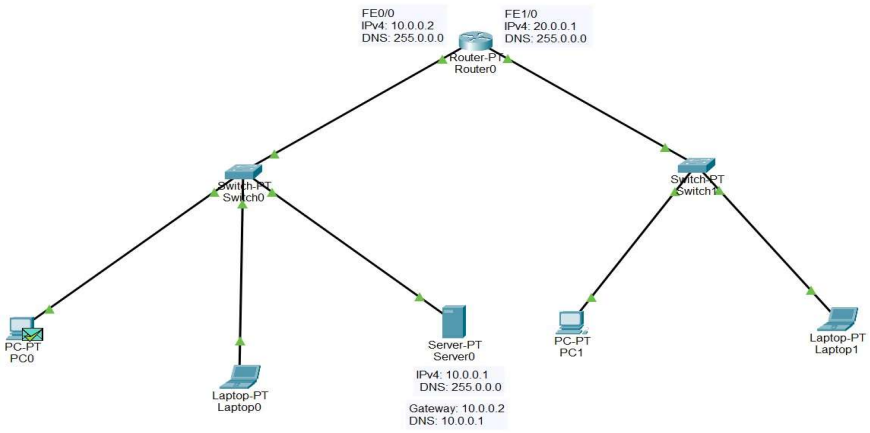
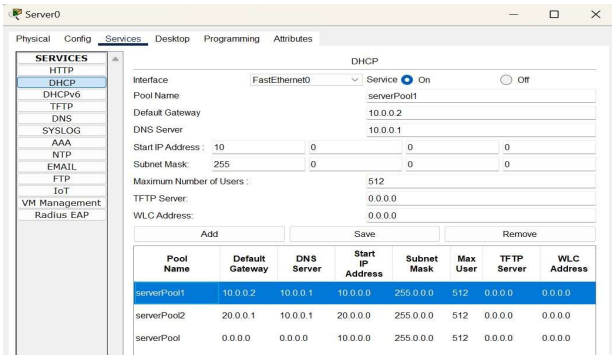
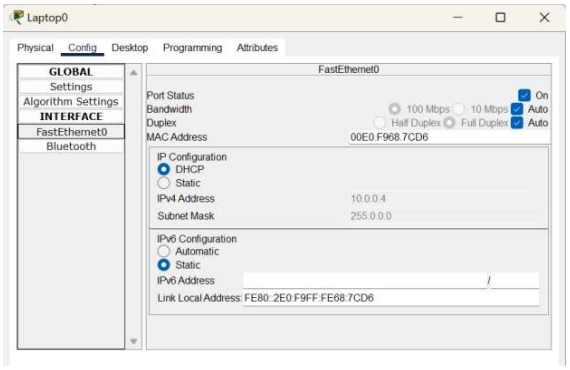
LABORATORY PROGRAM – 7(B)

To Configure IP addresses of the host using DHCP server outside a LAN.





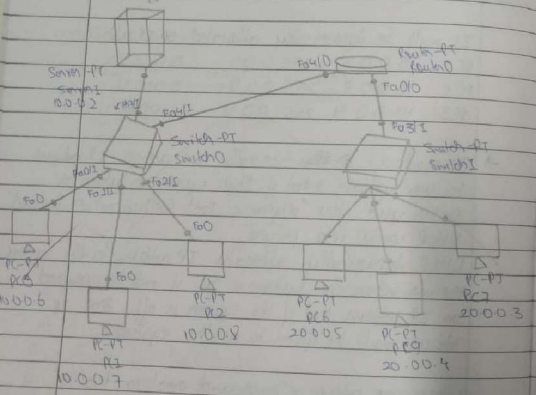


Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	Laptop0	ICMP		0.000	N	0	(edit)	
	Successful	PC1	Laptop1	ICMP		0.004	N	1	(edit)	

Outside LAN

→ Aim: We are dynamically assigning IP address to system using Server, routers and switches. We are not only dynamically assigning address inside a LAN but to other Network too using a router.

→ Topology:



→ Procedure

(7) add another router, switch and 3 end device
(8) Connect Switch 0 to router and connect Router to Switch 1 and Switch 1 to 3 end device

(9) Server → IP Address: 10.0.0.2
def Gateway: 10.0.0.1

Services → DHCP →
Pool Name: Switch1vlan
def Gateway: 20.0.0.1
Start IP Address: 20.0.0.3
max: 100
Users

(10) Router → CLI
enable
config terminal
interface fastethernet 4/0
ip address 10.0.0.1 255.0.0.0
ip helper-address 10.0.0.2
no shut
exit

interface fastethernet 0/0
ip address 20.0.0.1 255.0.0.0
ip helper-address 10.0.0.2
no shut
exit

(11) Now go to PCs → Desktop → ip config → DHCP

It will dynamically allocate IP address
PC6: 20.0.0.5
PC9: 20.0.0.4
PC7: 20.0.0.3