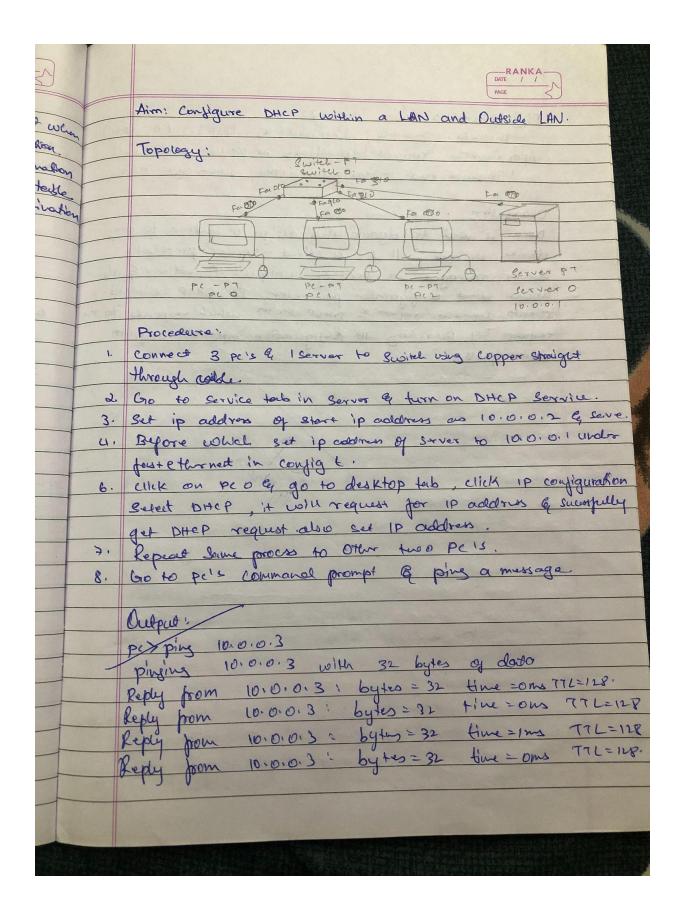
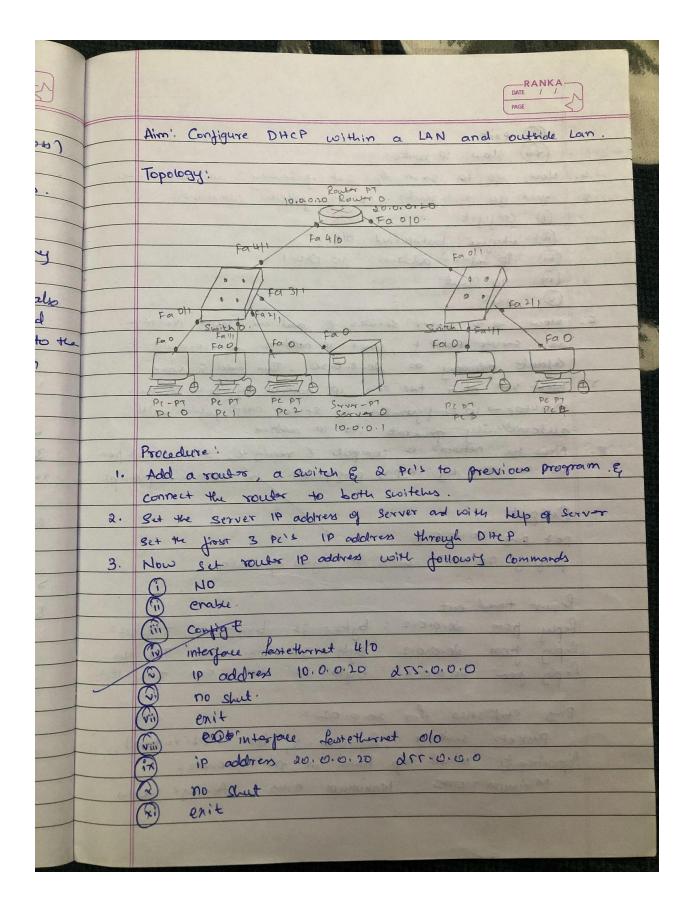
WEEK 4

Configure DHCP within a LAN and outside LAN.

OBSERVATION:



Play steethettes from 10,0,0,3: Packets: sent = 4, Received = 4, lost = 0 (04 tots) Approximate yound mp times in milli- seconds. talulmen=ons, Manferen=1ms, Avrage-ons. Observation! DHEP is used to degramically assign ip address to any device or hode. It is a client -server protocol. Server manages a pool of unique il addresses & also about alent configuration parameters. In DHEP - enabled clients sends a request to the DHEP server which responds to the request by providing 11 configuration information from address pools.



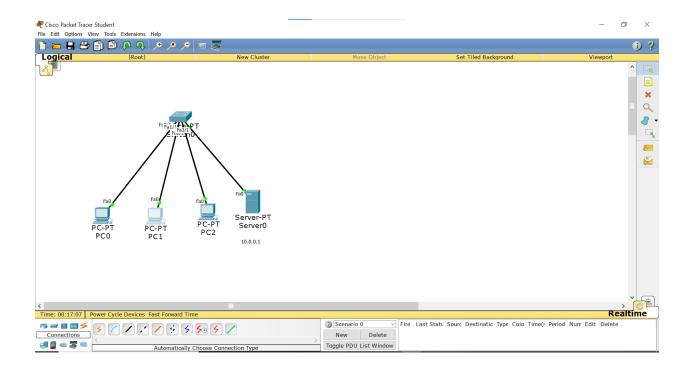


	DATE / / PAGE
lan.	@ enit
4	(Fin) flow ip noute.
k.	Now, go to sover ex set gardensony as 10:0:0.20
5.	Again go to router CLI & follow commands.
	1 Config t
4	(ii) imposface fastethernet 00
	(ii) Ip helper - address 10.0.0.1
4	10 no Shut
4	O enit
6.	Now, go to server services & add one more pool name
	as server posel 1, start IP address as 20.0.0.2 &
	default gottersay as 20.0.0.20. Then add & care.
7.	Now set other two pers ip address by going to their.
	Desktop -> ip configuration & select Atter which will
-	automatically generate i's IP address.
8.	New the network is complete & ready to seed packets from
3. MM	pe to oter by typing pingipaddrus in command prompt
	correct the source to both switches.
v-V-	Bulput:
	pe > ping 20:0.0.2
*	playing 20.00.2 with 32 bytes of dala
	Request timed out
	Reply from 20,0,0,2; byts = 32 the = 0 ms TTL=123
	Reply from 20.0.0.2: byts = 32 time = ons TTL=122
	Reply from 20,0,0,2 : by/s=32 time=ons TTL=127
	to the second se
	Phy Stafistics for 20.00.02
	packets sent=4 , Received -3, lost=1 (2540 loss).
	Approximante round trip Hous in millisceouses:
	Minimum = ons, Manimum = ons, Averege = ons

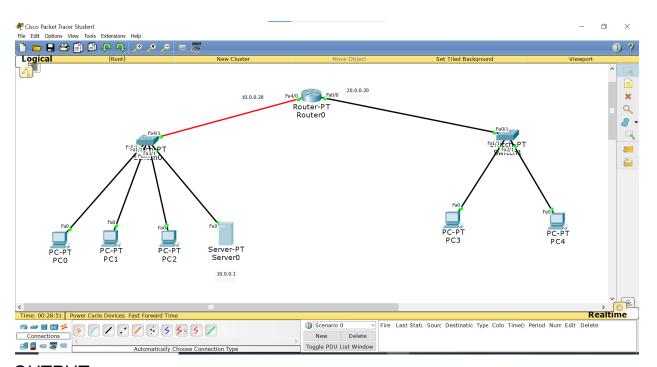
	DATE / / PAGE
	Observation:
	DHCP is used to assign ip addresses dynamically to different
	devices. To assign continuous in address use create
	a server pool whe assign the starting IP address
	and a default gateway number. For Pi's under
	a server pool whee assign the starting ip address and a default galevous number. For pe's under different avoitches we create a different server pool
	again and start. This takes core by delivering the packets to correct destination IP address & also sends back
	to correct destination IP address & also sends back
	ack to initial device.
	ack to mines
	19/2/2023
	19/2/20
-	

TOPOLOGY:

PROGRAM 4.1:

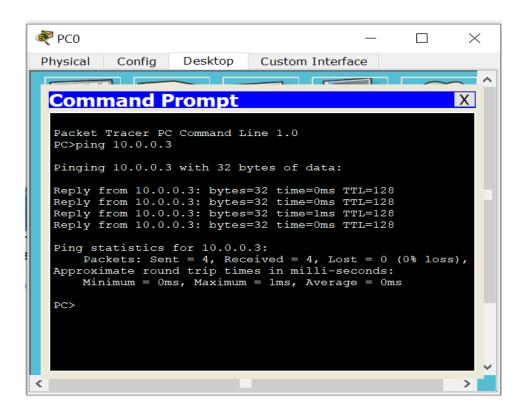


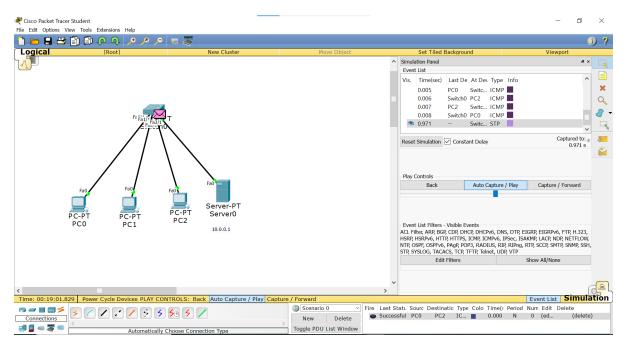
PROGRAM 4.2:



OUTPUT:

PROGRAM 4.1:





PROGRAM 4.2:



```
Physical Config Desktop Custom Interface

Command Prompt

Packet Tracer PC Command Line 1.0
PC>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 20.0.0.2: bytes=32 time=0ms TTL=127
Reply from 20.0.0.2: bytes=32 time=0ms TTL=127
Reply from 20.0.0.2: bytes=32 time=0ms TTL=127

Ping statistics for 20.0.0.2:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 20.0.0.3

Pinging 20.0.0.3 with 32 bytes of data:

Request timed out.
Reply from 20.0.0.3: bytes=32 time=0ms TTL=127
Reply from 20.0.0.3: bytes=32 time=0ms TTL=127
Reply from 20.0.0.3: bytes=32 time=0ms TTL=127

Ping statistics for 20.0.0.3:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>
```

