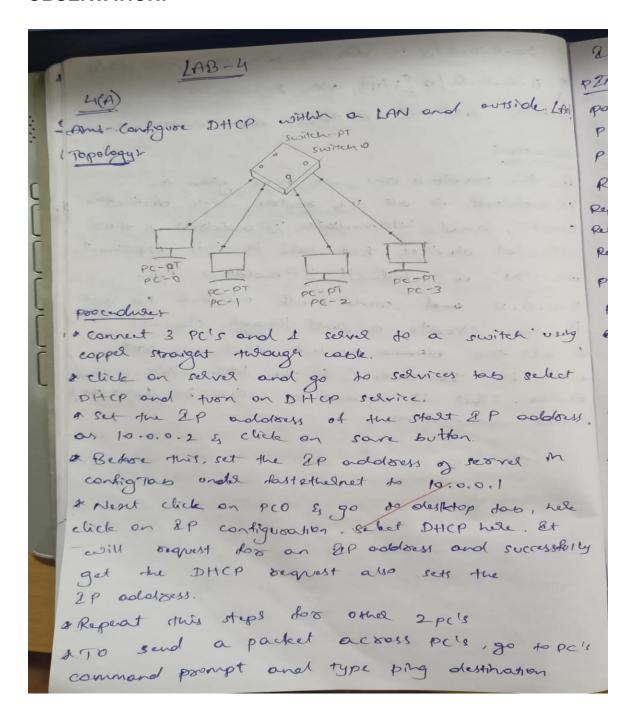
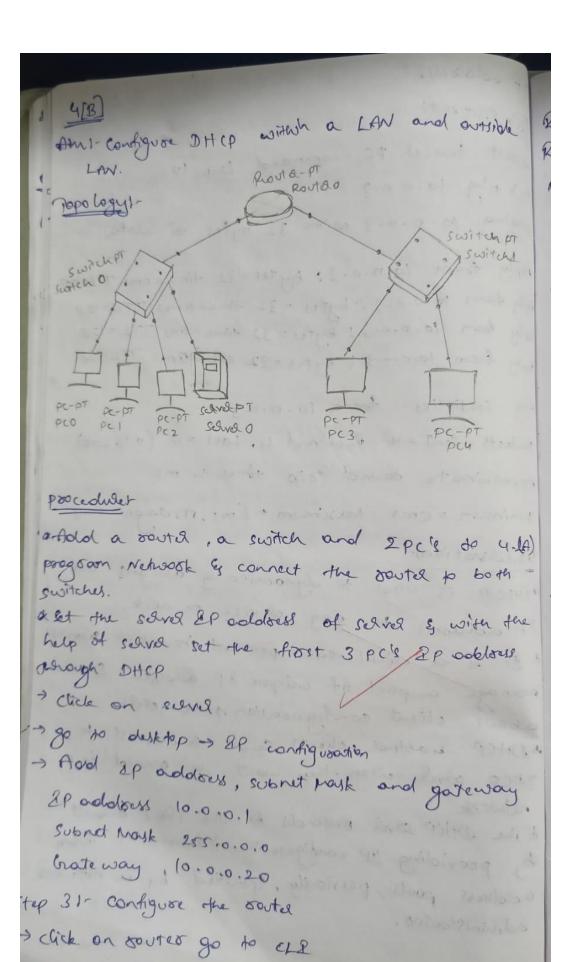
LAB 4

Configure DHCP within a LAN and outside LAN.

OBSERVATION:



2P adoloress. park out puts AN packet trace PC command Line 10: pc) pily 10.0.0.3 pilying 10.0.0.3 with 32 bytes of data. Reply from 10.0.0.3: by tes = 32 time= oms TTL=128 Reply bon 10.0.0.3 ! bytes = 32 the 20 ms TTL=128 aply from 10.0.0.3 1 bytes = 32 time = (m) TTL=128 Reply bon 10.0.0.3: bytes - 32 time= 0 ms TTL=128 ping statistics from 10.0.0.3 packets sent = 4 Received 4, Lost = 0 (0 % Loss) approximate dound top times in ms. minimum = oms, maximum = 1 ms, Ardage = ome O bellevations * DHEP is used to obynamically assigns on Et address to any derice or node. * It is a client -sand protocol in which solvers manage a pool of unique 2P address & also about client configuration palametels. a DHCP enabled clients sends a reignest to DHCP selved when they want to connect to a retwo xx ATTHE DHEP savel overgonals to the client originst by providing 20 configuration information from address pools, premously, specified by a notwork odrunstraines

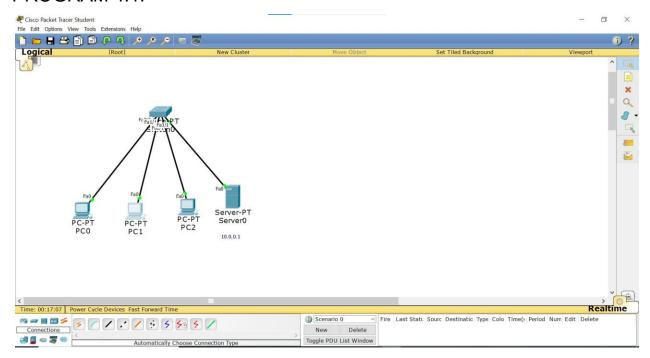


enorble. Routest config + Route (config) # fastefuenet 0/0 Routed (config)# ip ordolocss \$0.0.0.20 255.0.0.0 Rout el (contig -it) # no shut Routel (only-it) # esit. Routel (config) ## intelface dostethernet 110 Routel (configif) # ip analoguess 20.0.0.20 255.0.0.0 · Routd (working - it) # no shut Routel (config -it) # exit exit Reiting touble Routed > show ip route c 10-0.0.0/1 is directly connected, fastathebrit of A) step 41- ho to sever[DHCP sever configuration] -> select services then go to DHCP of set solvice on -> set staat 2p adobess from (ex-20-0.0.) then some. Step 51- Then configure the pc's -) select a pc then olightep-go to 2p configur select DHCP. -> Repeat the some procedure for all other PC 4.

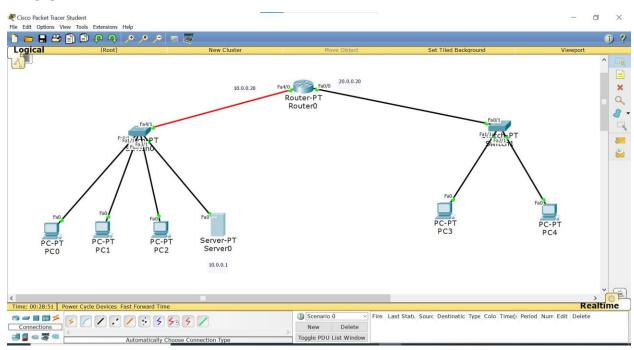
> DHCP is used to design 2p anddoors Dynamically ? to difficent devices. → To assign continuous 2P andoloress eve counte a sorreport where we assign the starting &p adobest and a desbult gateway number. Pos pels unide different switches we execute que · different serves pool again & sport

TOPOLOGY:

PROGRAM 4.1:

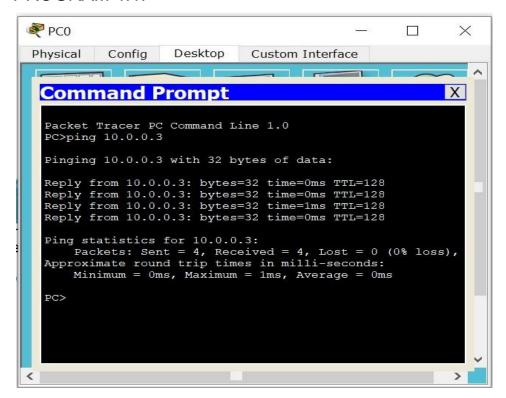


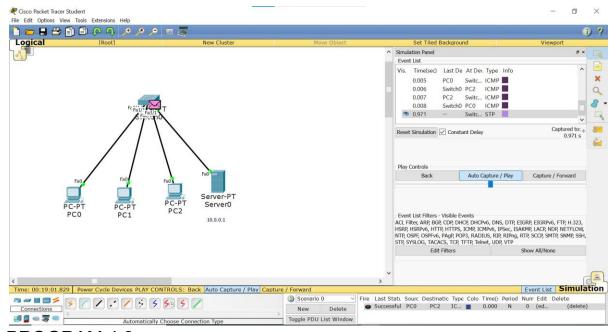
PROGRAM 4.2:



OUTPUT:

PROGRAM 4.1:





PROGRAM 4.2:



```
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
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>
```

