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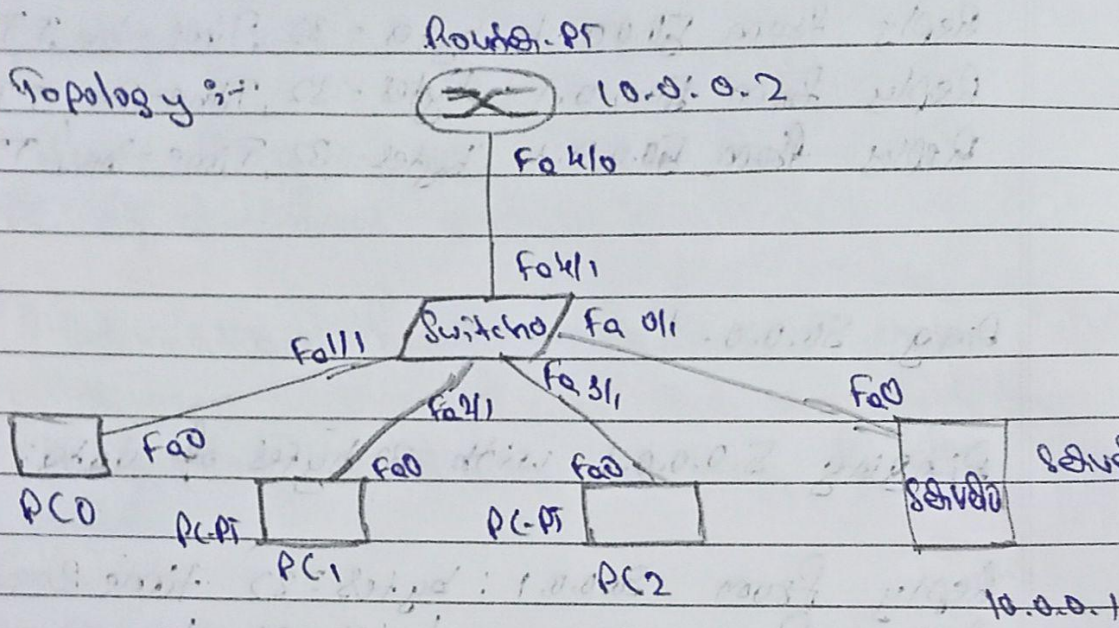
Experiment - 4

Aim :- Configuring DHCP within a LAN in a packet Tracer

Topology :-



Procedure :-

(i) Add 3 - PC's, 1 - Server, 1 - Switch, & 1 - Router

(ii) Configure the server with IP address and gateway. (IP address - 10.0.0.1) (Gateway 10.0.0.2)

(iii) In Router, follow the following commands in CLI :-

```
interface fastethernet 4/0
ip address 10.0.0.1 255.0.0.0
```

(iv) In Server, go to Services and enable Service

Default Gateway = 10.0.0.2
DSN Server = 10.0.0.1
Start IP : 10.0.0.3
TFTP Server : 10.0.0.1

Max. vlans : 8
Save it.

(v) For all PC's → Desktop → IP configuration
Shift from static to DHCP

(vi) Now all configuration is done Ping any PC from a PC to see the result.

Observation:

Learning Outcome:
Server automatically provides IP address for the PC's

Result:-
Ping 10.0.0.5

Pinging 10.0.0.5 with 32 bytes of data:

Reply from 10.0.0.5: bytes=32 time=0ms TTL=128
Reply from 10.0.0.5: bytes=32 time=1ms TTL=128
Reply from 10.0.0.5: bytes=32 time=0ms TTL=128
Reply from 10.0.0.5: bytes=32 time=1ms TTL=128

Ping statistics for 10.0.0.5:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms

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