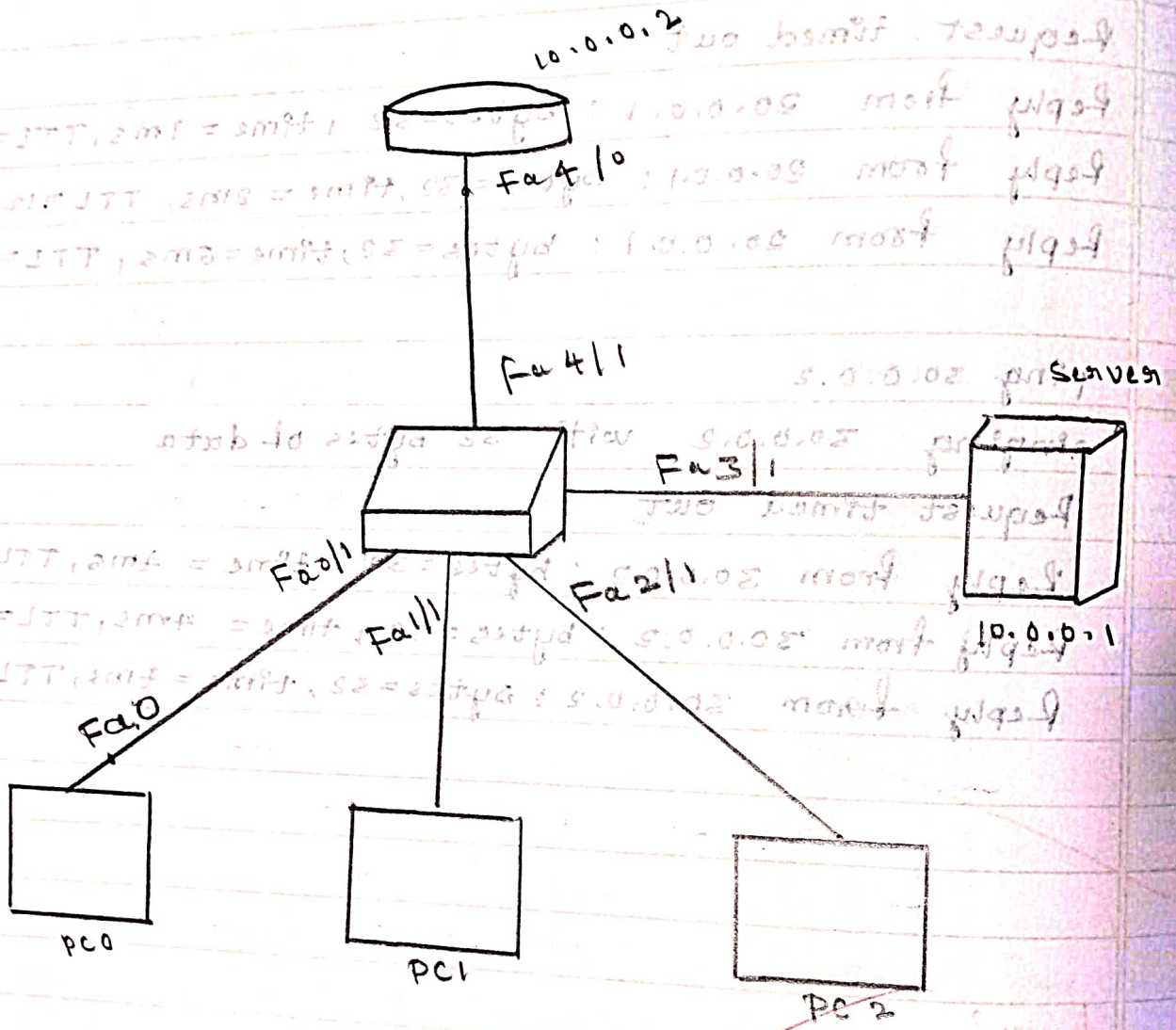


Topology:-



Aim: Configuring DHCP within a LAN in a packet Tracer

Procedure:

1. Place 3 PC's, 1 switch, 1 server, and one router, connect all devices and router to switch
2. Set the IP address 10.0.0.1 for server and gateway as 10.0.0.2
3. For Router 0, do the following CLI commands
→ Interface fastethernet 4/0
→ IP address 10.0.0.2 255.0.0.0
4. At the server, go to services and enable service. Set the default gateway 10.0.0.2, DNS server 10.0.0.1
Start IP : 10 0 0 3 and click save
5. For all the PC's go to IP config & turn on the DHCP
6. After all the above steps ping for the messages.

Observation :

Learning outcome :-

→ Server provides the IP addresses 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=0ms TTL=128

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

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