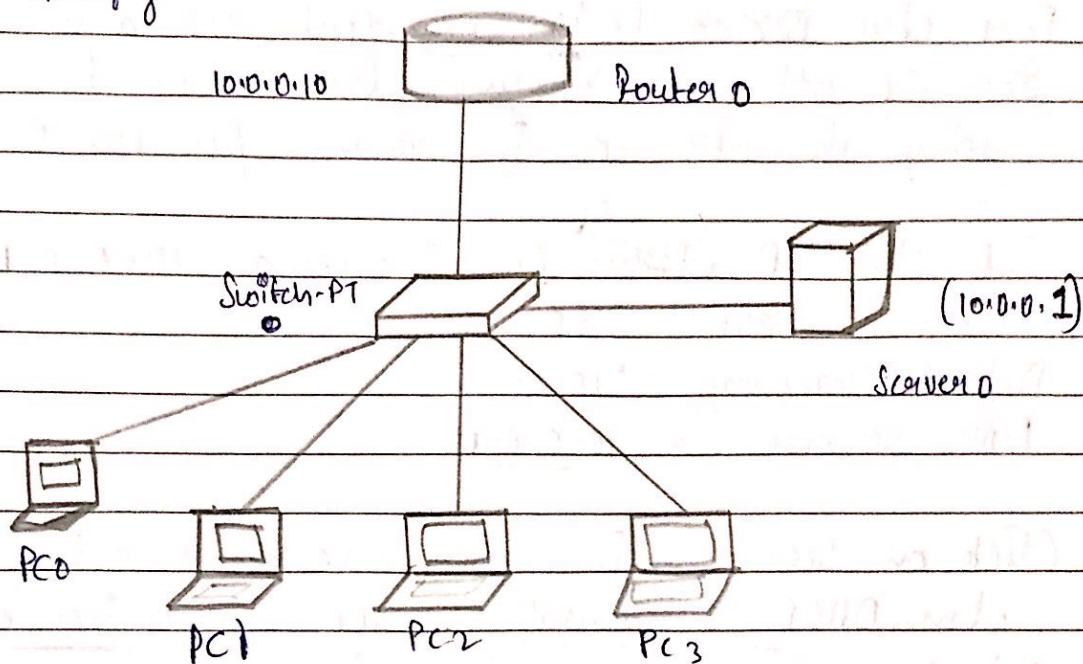


# Q 4b) Configuring DHCP within a LAN Packet Tracer

## Topology



## Procedure

### (Connections)

- Connect the PC0, PC1, PC2, PC3 to the switch using Copper - Straight through.
- Connect the server ~~0111~~ to the switch using Copper straight through.
- Connect the Router 0 to the switch using Copper straight through.



## Configuration

- Set the normal default gateway for the router as 10.0.0.10, using CLI.
- For the ~~router~~ PC's we don't set any ~~IP~~ IP addresses because the server is going to allot the IP addresses for the PC's.
- Set the IP address for server as 10.0.0.1.  
 Subnet Mask = 255.0.0.0  
 Default Gateway = 10.0.0.10  
 DNS Server = 10.0.0.1
- Click on Services in the router and enter the DHCP Configuration. I set the services on. set these following configurations :-  
 Default Gateway : 10.0.0.10  
 DNS Server : 10.0.0.1  
 Start IP address : 10.0.0.11  
 Subnet Mask : 255.0.0.0  
 Maximum Users : 100  
 TFTP Server : 10.0.0.1

Save these Configurations.

- Go to ~~router~~ PC, select Desktop → IP Configuration. Select DHCP instead of Static. The server will then allot an IP address for the PC.
- Do this for all the PC's.

## Observations

→ Upon doing all the steps properly:-

We see that all the PC's are allotted different IP addresses starting from 10.0.0.1 which will be allotted by the server for specified 100 users.