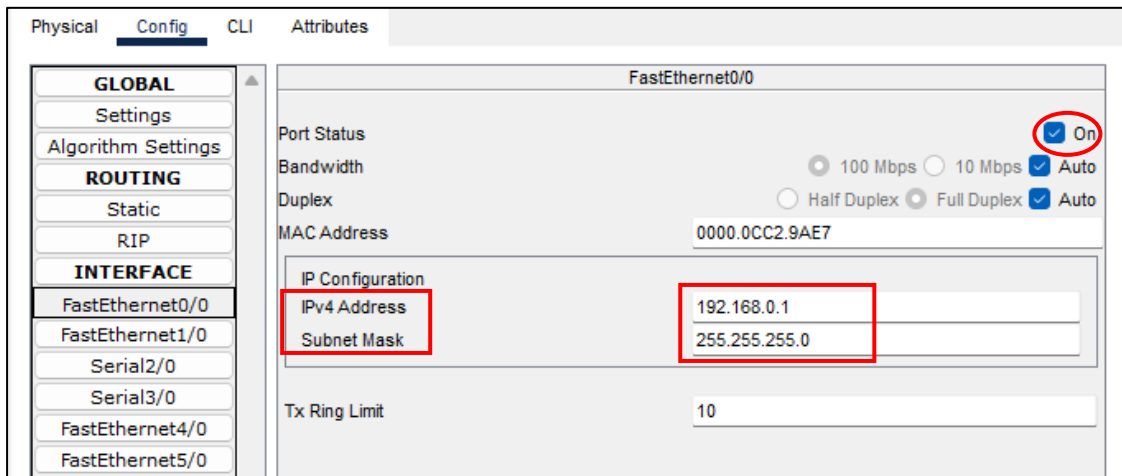


Assignment – 5

Configuration of DHCP connection.

❖ Procedure:

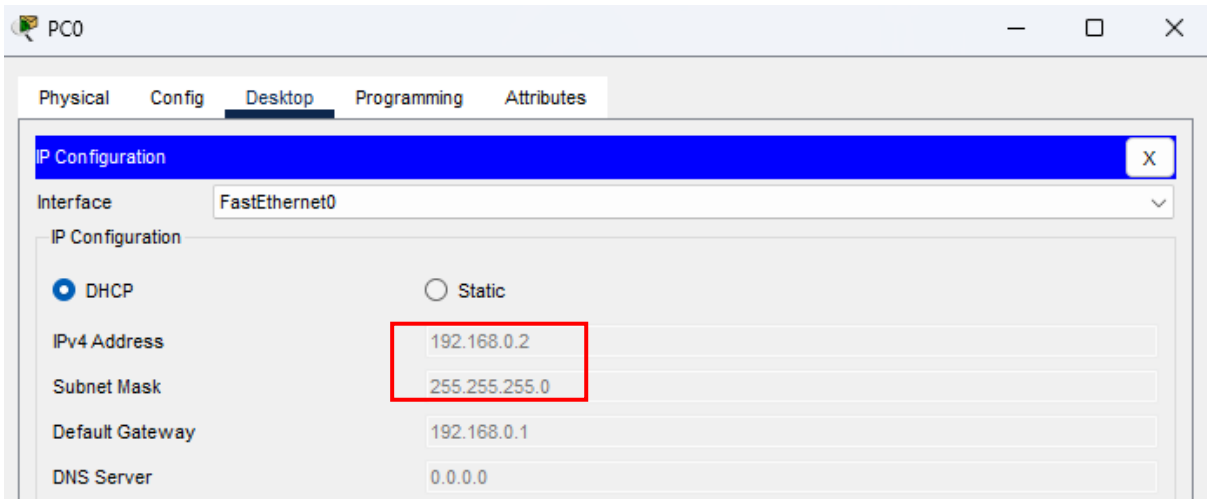
- Step 1 : Take a Router, a Switch, one PC and one Laptop
- Step 2 : Connect Switch with Router and connect the PC and Laptop with Copper Stright-Through wire.
- Step 3 : Enable the port of the Router where the Switch is connected
- Step 4 : Assigning an class-C IP Address to the Router:

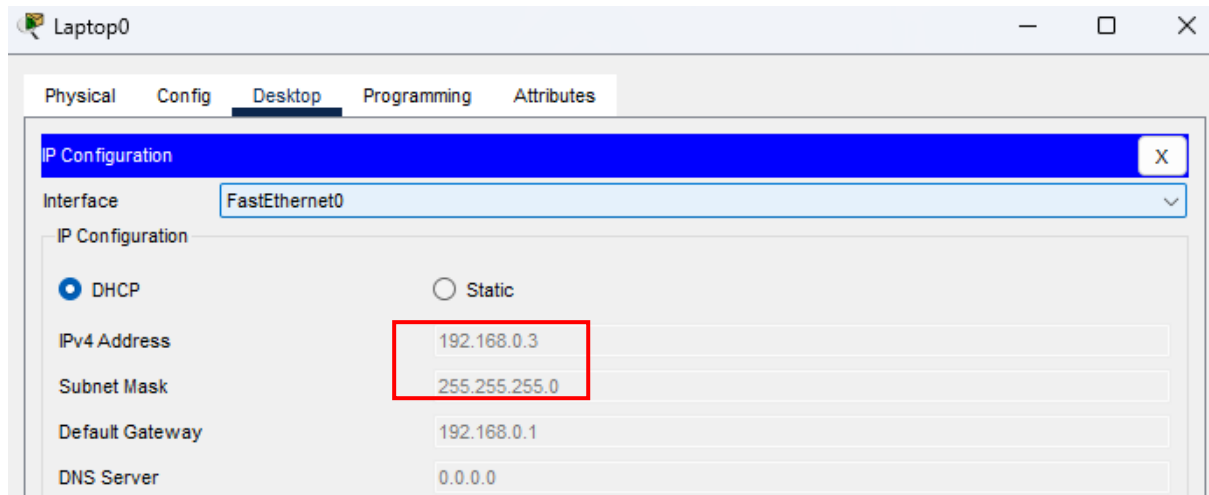


- Step 4 : After that open CLI of Router and write these commands one by one by hitting enter.

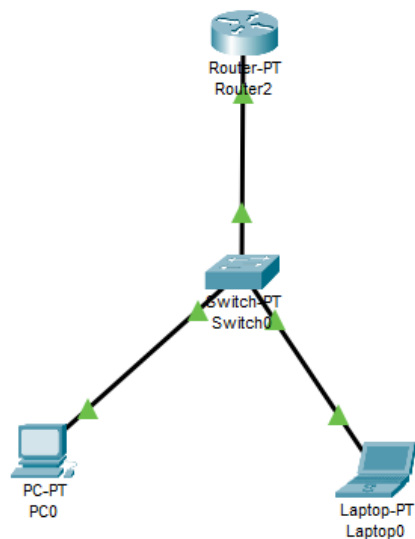
```
Router(config-if)#ip dhcp pool mypool
Router(dhcp-config)#network 192.168.0.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.0.1
```

- Step 5 : Now open IP Config of PC & Laptop by double clicking on PC & Laptop Icon select the DHCP option then you can see PC or Laptop requesting IP from DHCP server and show the allotted IP Address.





❖ Diagram:



❖ Output's:

```
C:\>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Reply from 192.168.0.1: bytes=32 time=6ms TTL=255

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 6ms, Average = 1ms
```

Response coming from Router when ping Router IP in CMD, So DHCP connection is successful.