

**Izaan Mohtashim**

**P20-0613**

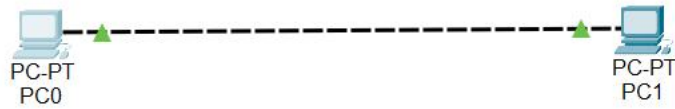
**Sec 5-A**

**Computer Networks Lab**

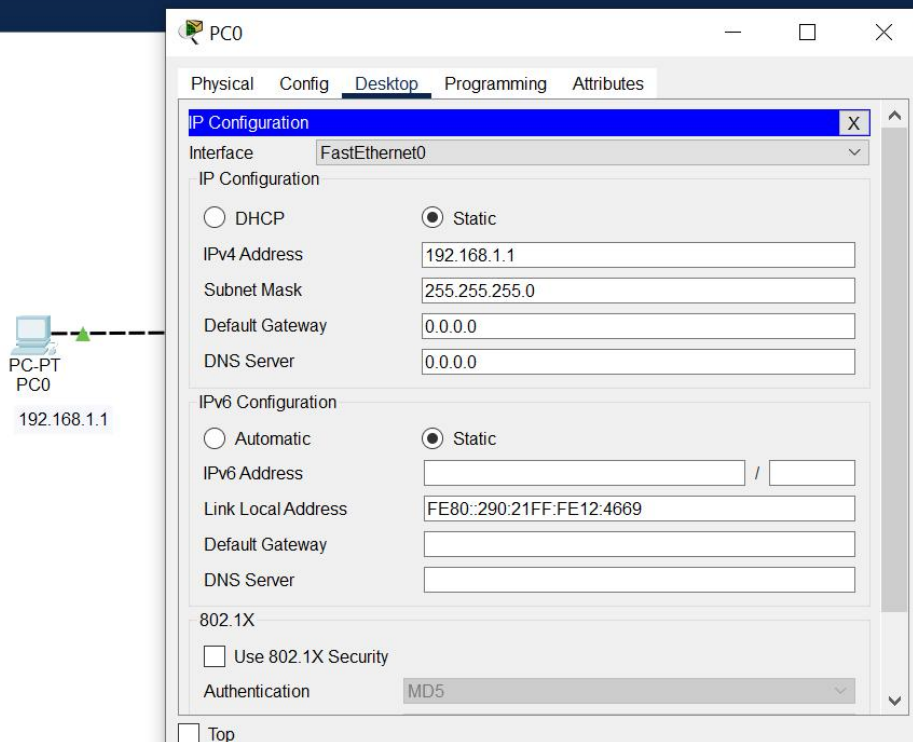
**Lab Task 2**

## Task 1 (I)

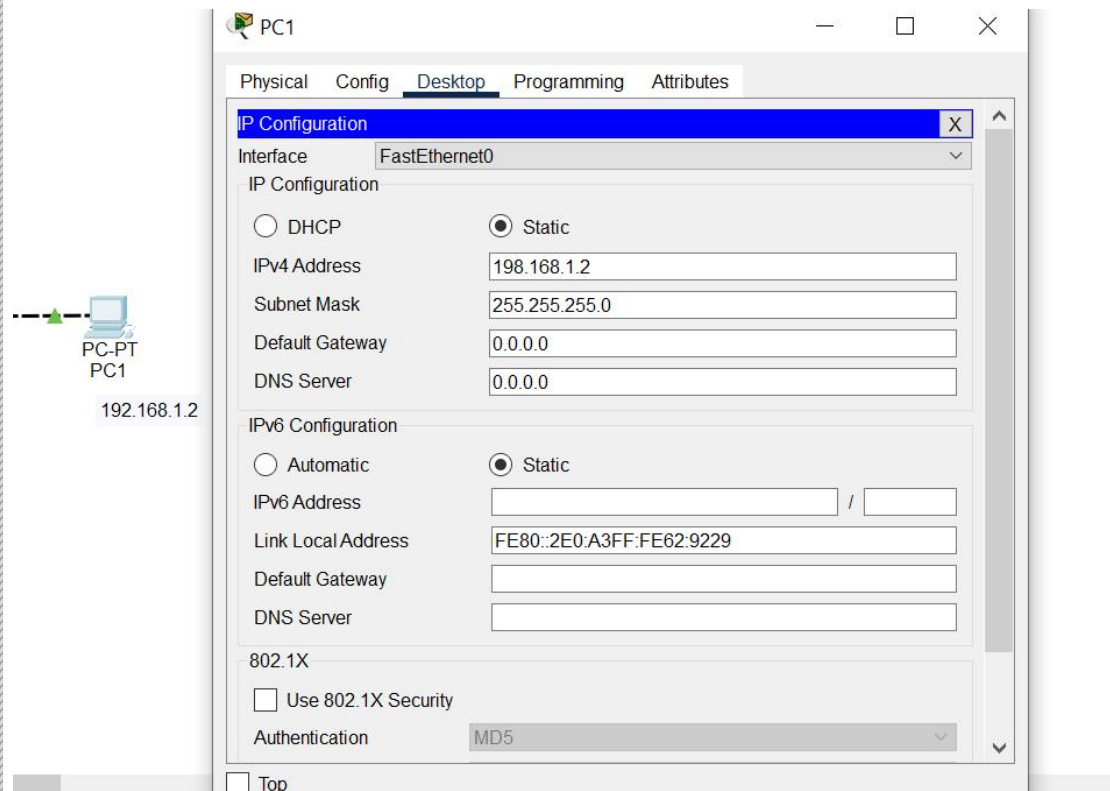
1) First we made the connection of two PC by Copper Cross Over



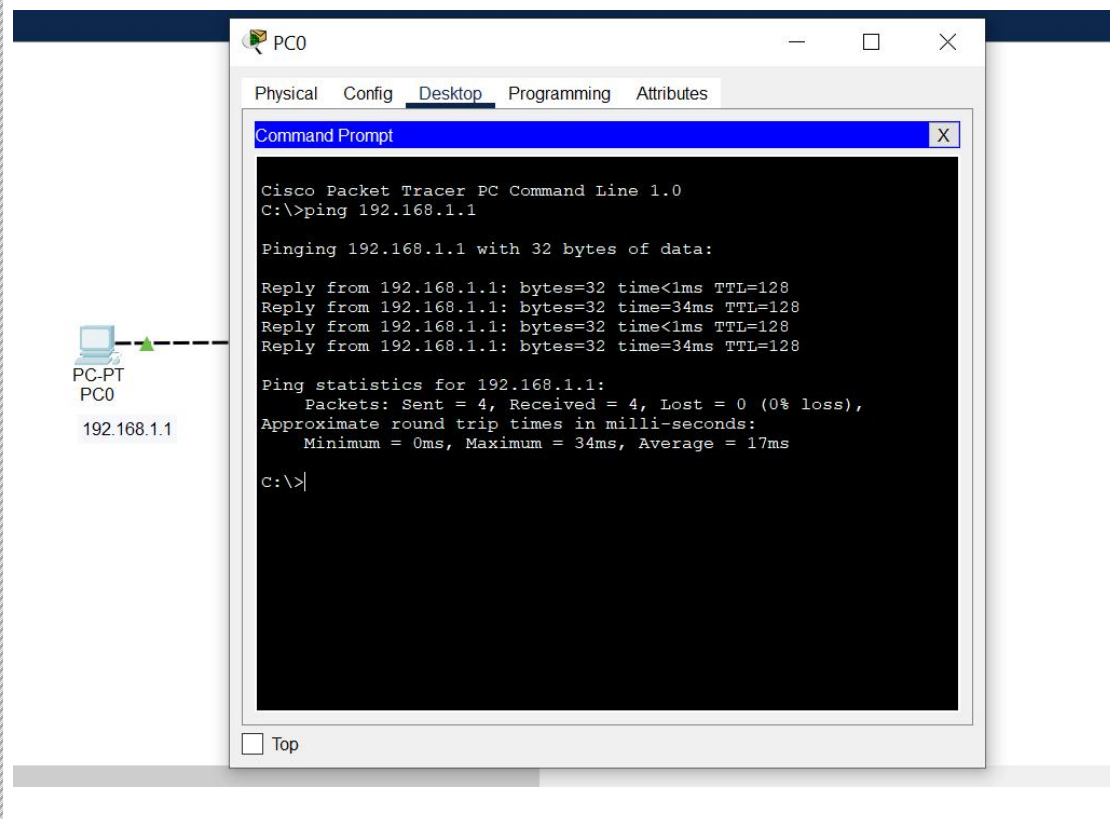
2) Then we assign Ip address to PC 0 by clicking on it and then click on desktop and then ip config. There we can assign its ip.



3) Then we assign Ip address to PC 1 by clicking on it and then click on desktop and then ip config. There we can assign its ip.

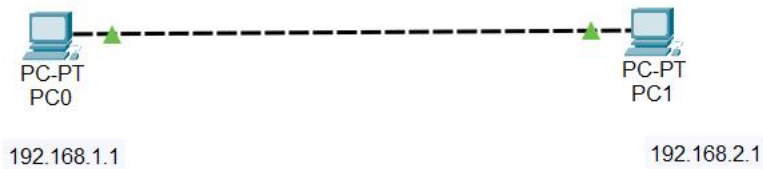


4) Then we calculated its ping of PC 0 by clicking on PC and then desktop and cmd.

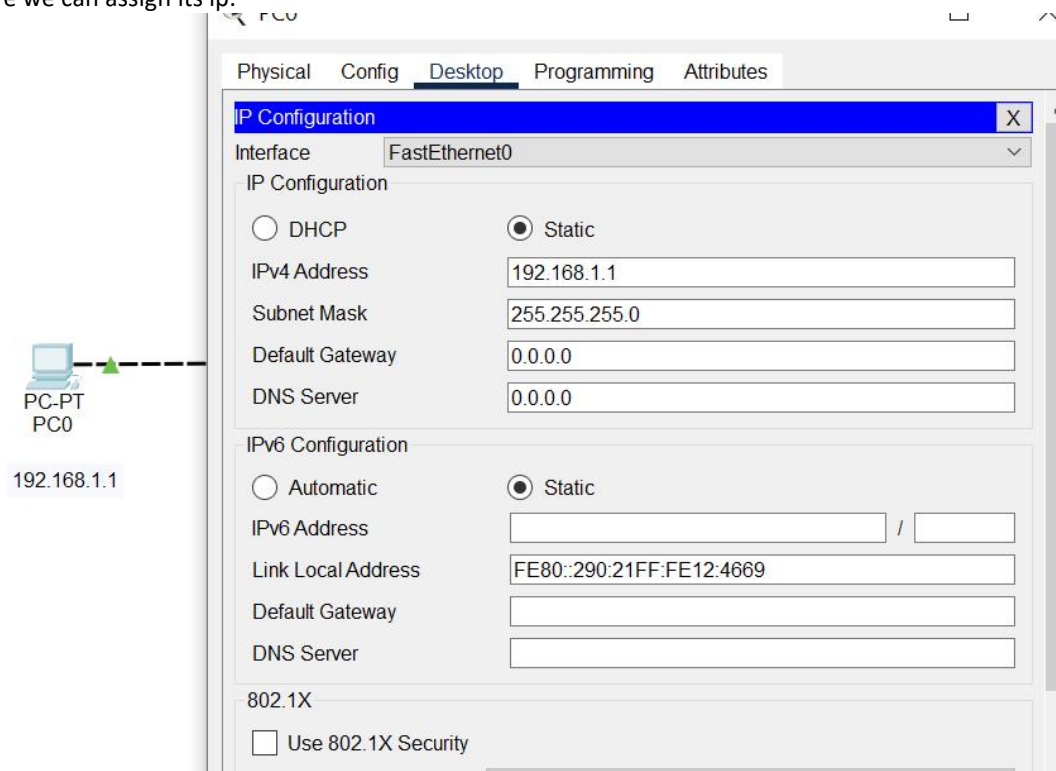


## Task (ii)

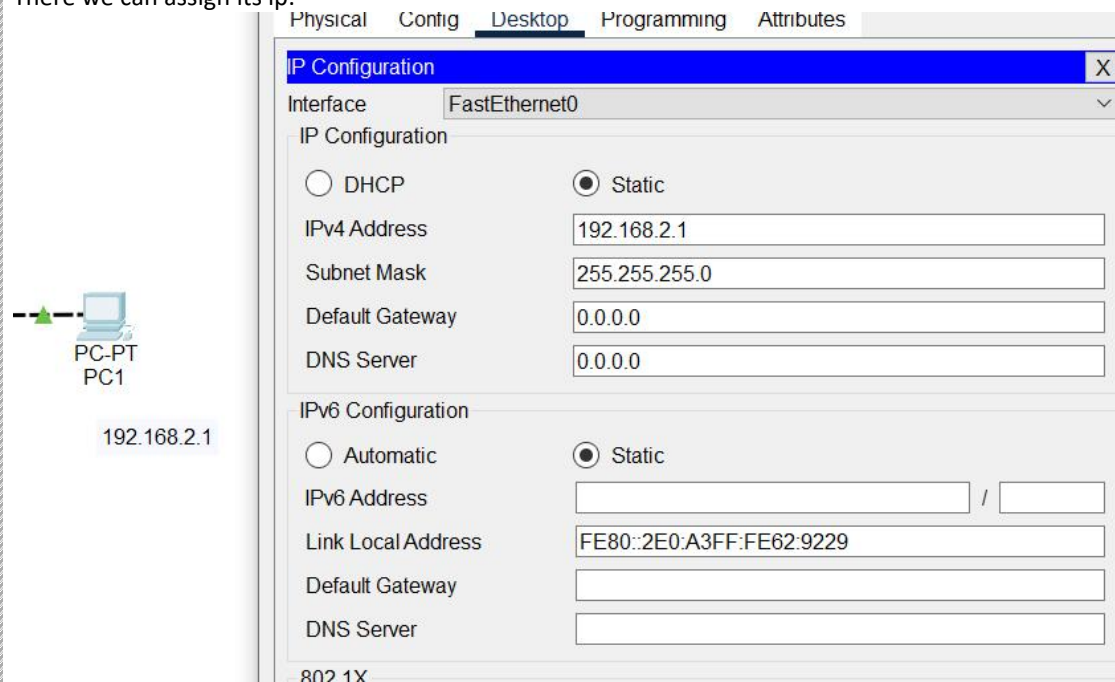
1) First we made the connection of two PC by Copper Cross Over



2) Then we assign Ip address to PC 0 by clicking on it and then click on desktop and then ip config. There we can assign its ip.



3) Then we assign Ip address to PC 1 by clicking on it and then click on desktop and then ip config. There we can assign its ip.



4) This error is generated bcz the network id of both pc are different that's why connection cant be established.

```
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

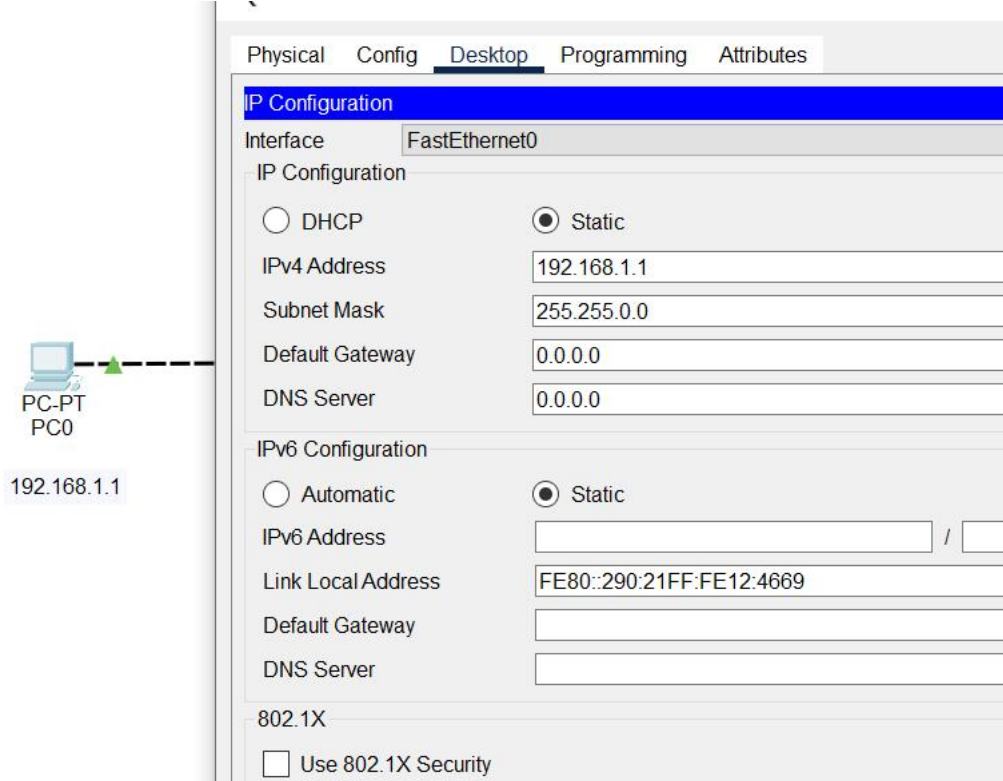
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

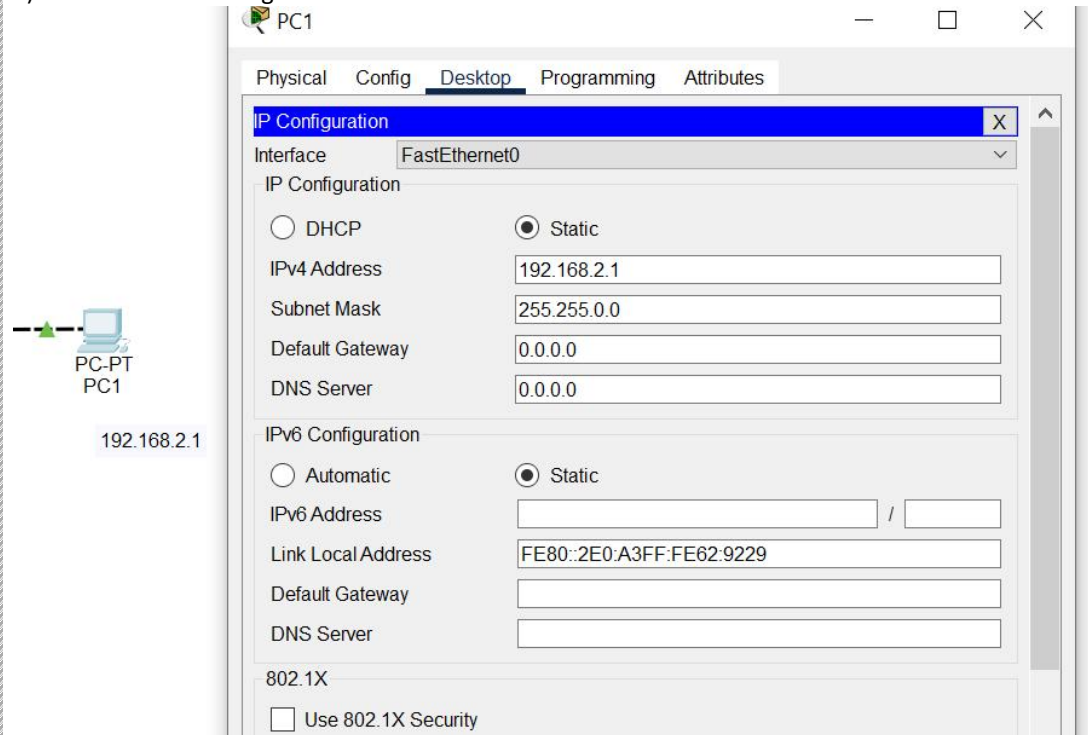
C:\>
```

## Task (iii)

1) In this we have changed the subnet mask.



2) In this we have changed the subnet mask.



3) Connection is establish because the network id of both are same.

PC-PT  
PC0

192.168.1.1

```
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time=3ms TTL=128
Reply from 192.168.1.1: bytes=32 time=2ms TTL=128
Reply from 192.168.1.1: bytes=32 time=10ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 3ms

C:\>ping 192.168.1.1

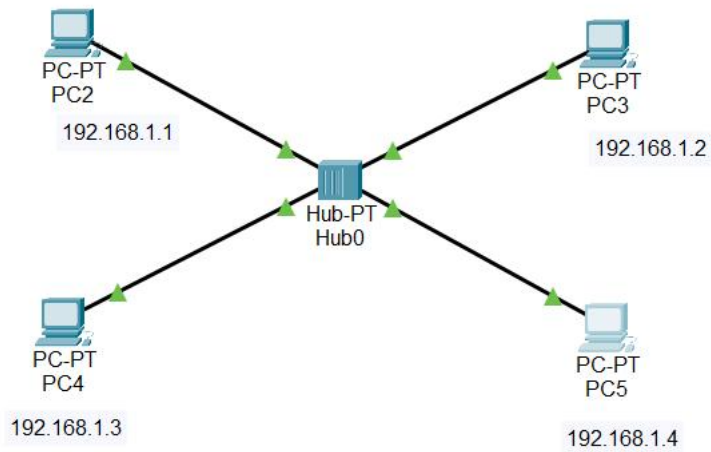
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time=6ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time=7ms TTL=128
Reply from 192.168.1.1: bytes=32 time=33ms TTL=128

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 33ms, Average = 11ms

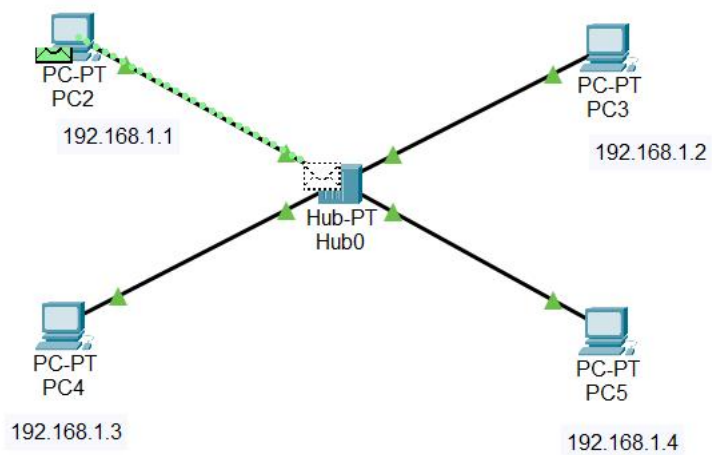
C:\>
```

## Task 2(HUB)

1) We connected 4 pc to hub device and also assigned different ip to each PC.

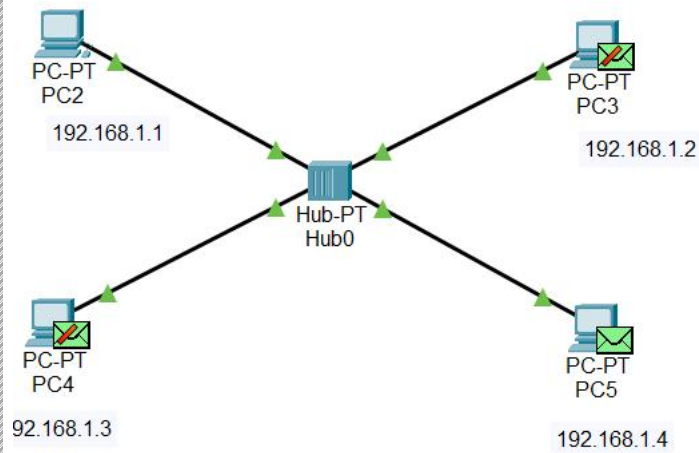


2) Then we send a message from PC2 to PC5. Here you can see that first the message will send to HUB.

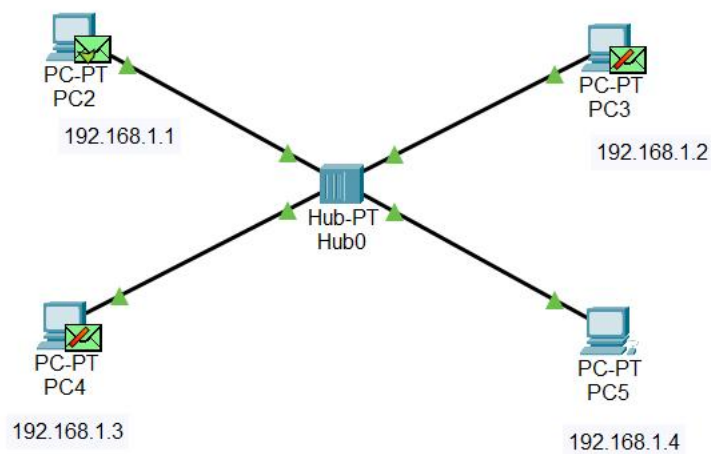




3) Then the HUB will send to message to all PC because it is not an intelligent device and don't have memory so that's why it send to all device.

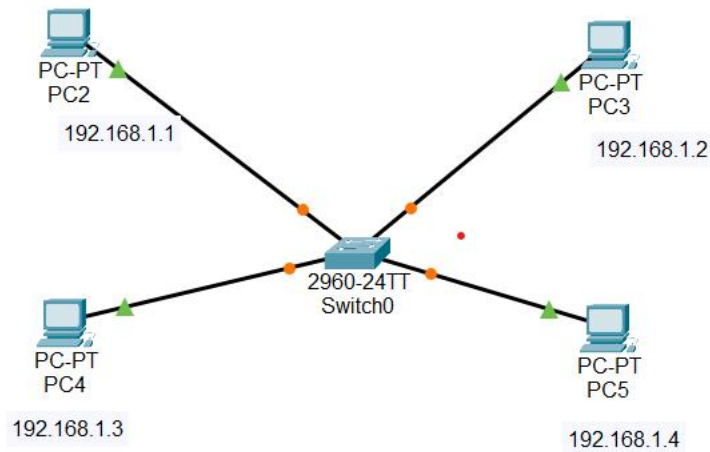


4) When the message is received then again it send to the sender to accomplish that your message have been sent.

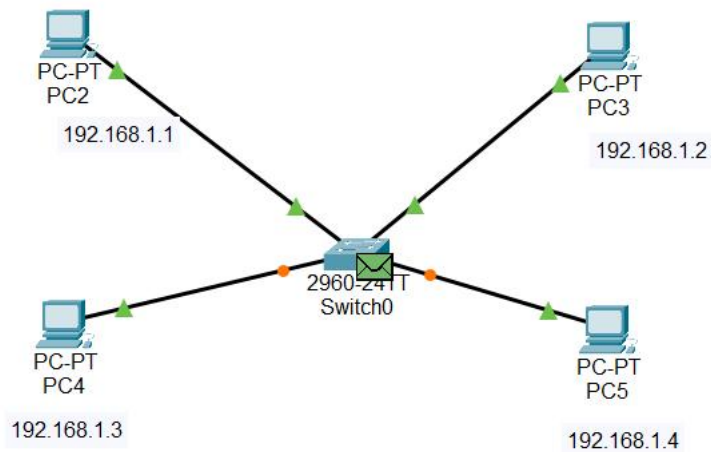


### Task 3 (Switch)

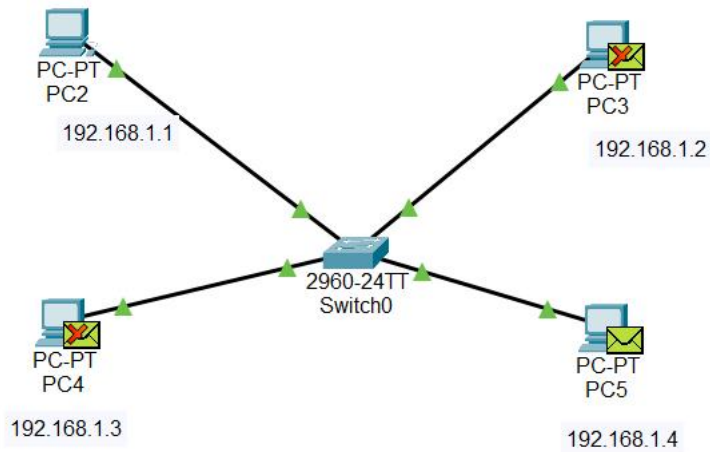
1) We connected 4 pc to Switch device and also assigned different ip to each PC.



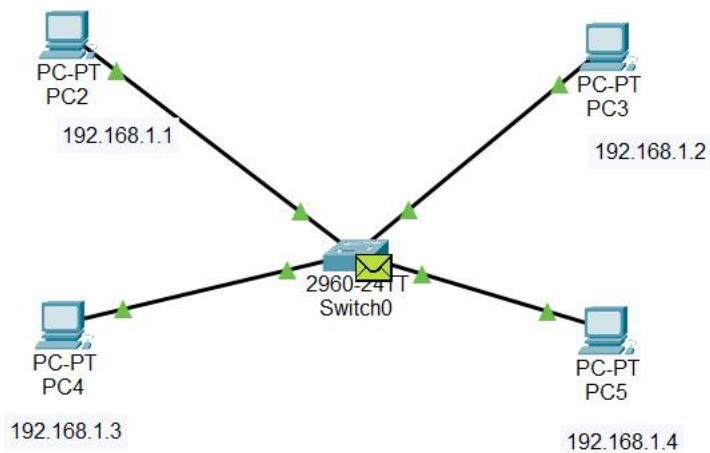
2) We send the message from PC2 to PC5 so first it will receive by switch.



3) Then the switch will send to all PC to store memory and it will be receive by PC5.



4) After receiving msg it will then send to PC2 so say that msg being recived at that time the msg will be recived only by PC2 not all device and that's the diffeerence between HUB and Switch.



5) As you see here.....

