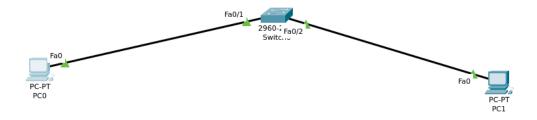
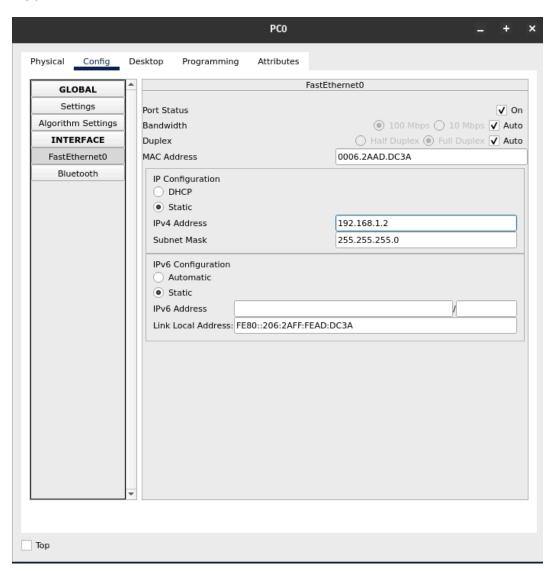
Q5-7)

Network with 2 systems and a switch:

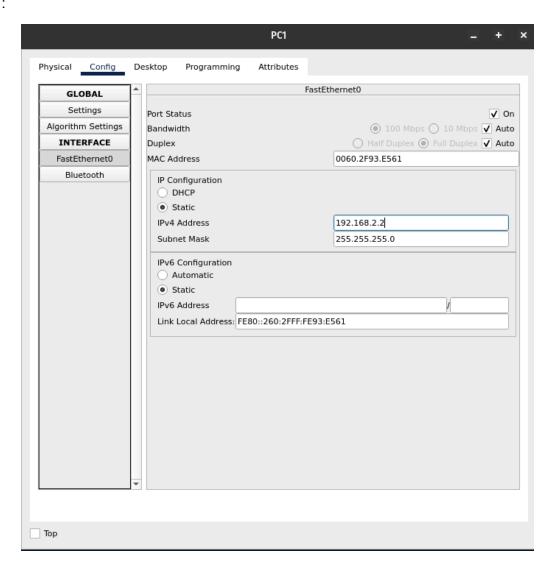


Assigning IP addresses:

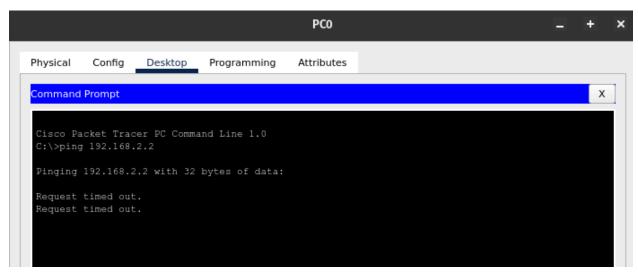
PC0:



PC1:



Pinging:



Ping doesn't happen. Why?

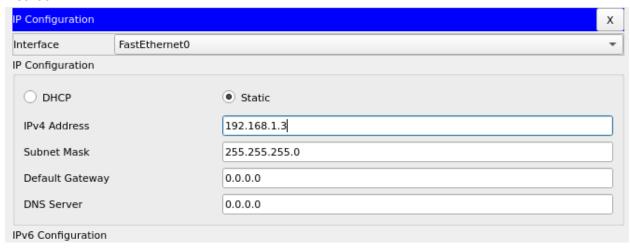
Tracert also doesn't happen.

This means that the problem is with the IP address. This is because, both are in different subnets as the subnet mask is 255.255.255.0

Two ways to change:

- 1) Change IP address of PC1 to 192.168.1.3
- 2) Change subnet mask to 255.255.0.0

Method 1:



PC1 IP has changed

```
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time<lms TTL=128

Reply from 192.168.1.3: bytes=32 time<lms TTL=128

Reply from 192.168.1.3: bytes=32 time<lms TTL=128

Reply from 192.168.1.3: bytes=32 time=7ms TTL=128

Ping statistics for 192.168.1.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

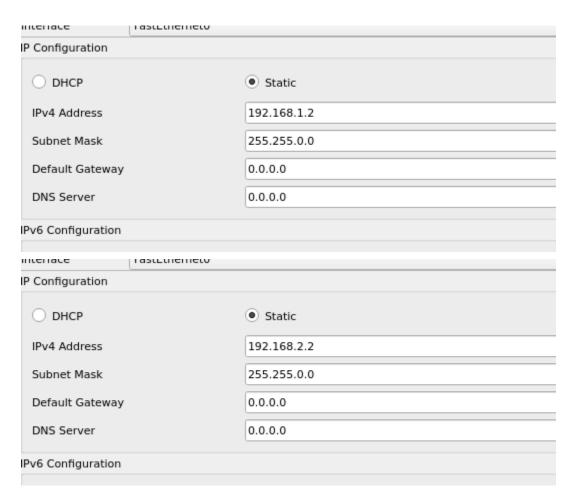
Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = 7ms, Average = 1ms

C:\>
```

Ping now works correctly

Method 2:



```
C:\>ping 192.168.2.2
Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.2.2: bytes=32 time<lms TTL=128
Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms</pre>
C:\>
```

PING now works.

It is best to change IP address over subnet mask.