

WEEK 1 (1BM21CS213)

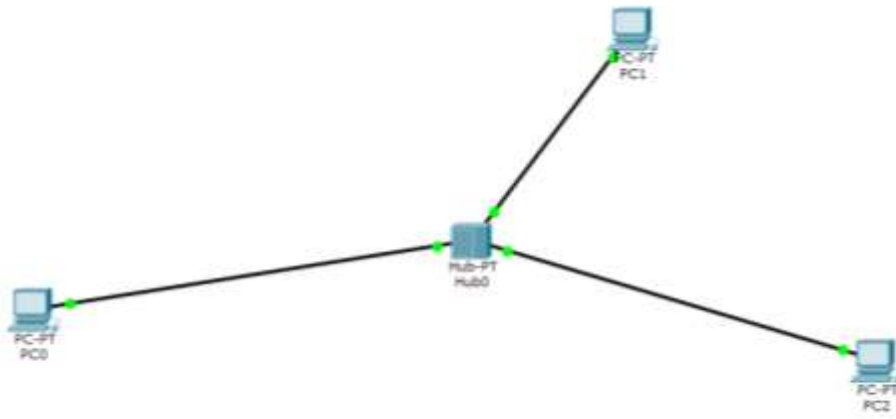
1. Create a topology consisting of 2 or more end devices connected with the help of hub and switch and simulate a simple PDU.

Outcome with Hub:

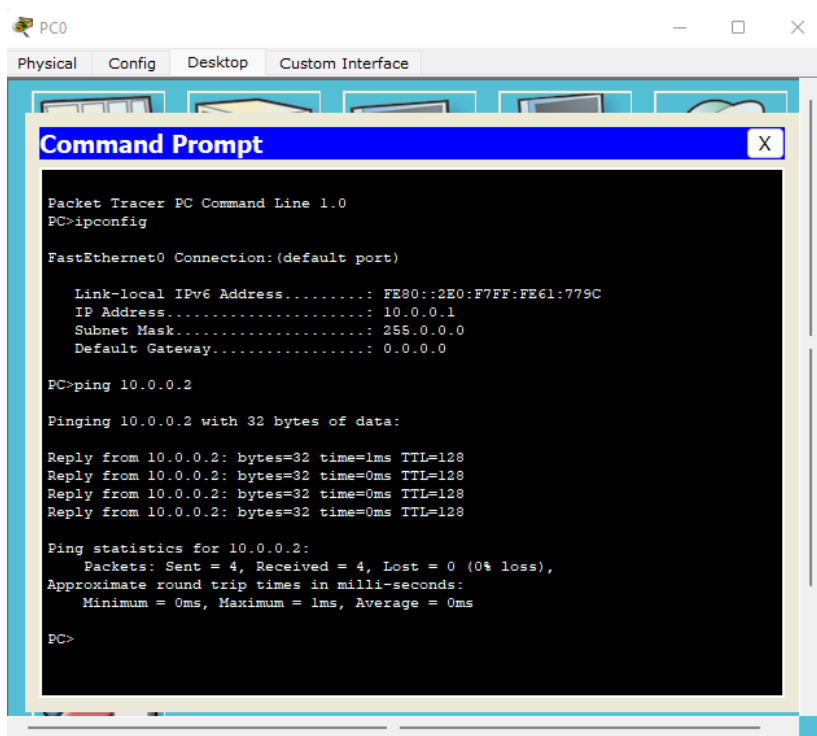
In real time, when we use ping command, we notice that response is received from destination.

In simulation mode, hub gets PDU, it broadcast to all the connected devices, then one device accepts the others drop or reject.

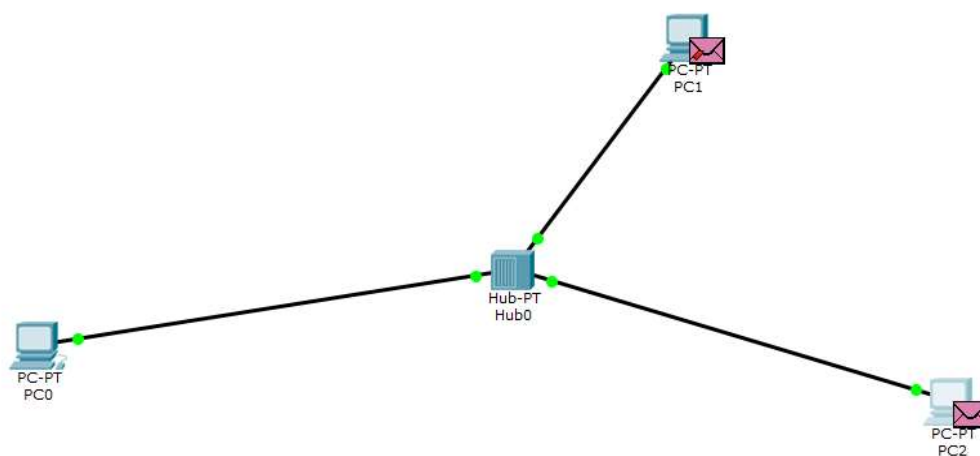
Real Time:



Ping:



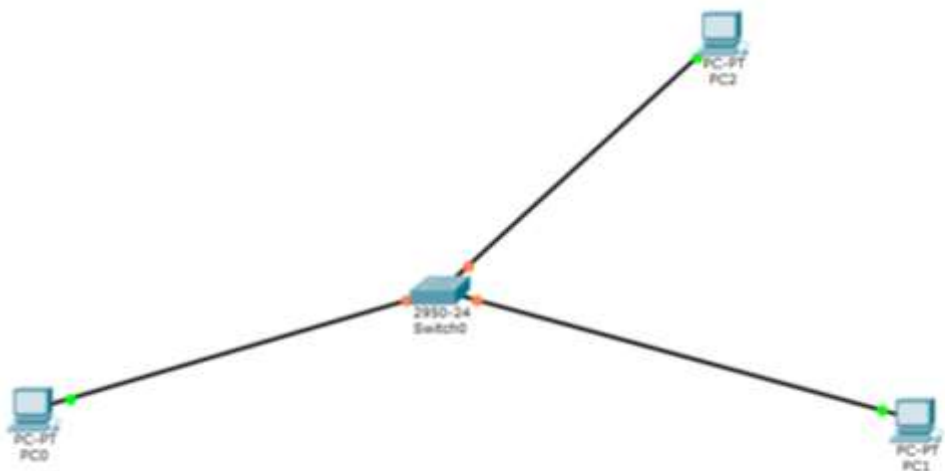
Simulation:



Outcome with Switch:

In simulation mode, as it receives the PDU, switch only transmits or forwards to the destination/ mentioned end device.

Real Time:



Ping:

The screenshot shows a Packet Tracer PC Command Line window for PC0. The window has tabs for Physical, Config, Desktop, and Custom Interface. The Command Prompt is open, displaying the following text:

```
Packet Tracer PC Command Line 1.0
PC>ipconfig

FastEthernet0 Connection:(default port)

    Link-local IPv6 Address.....: FE80::20C:85FF:FE9E:E94A
    IP Address.....: 10.0.0.1
    Subnet Mask.....: 255.0.0.0
    Default Gateway.....: 0.0.0.0

PC>ping 10.0.0.2

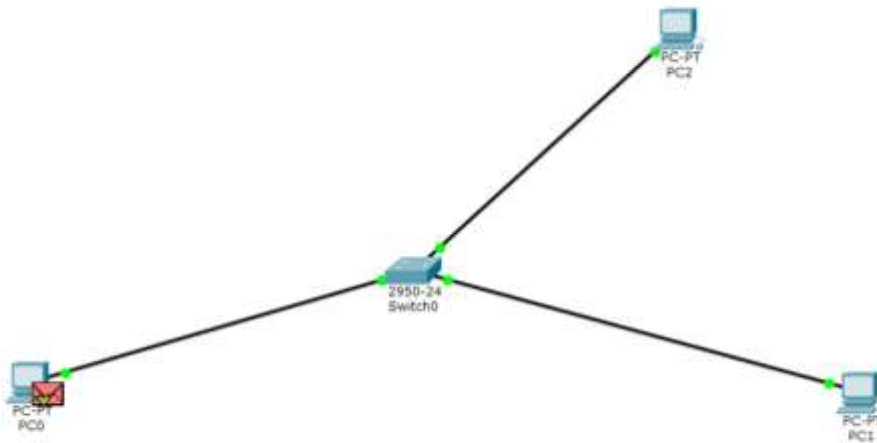
Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128
Reply from 10.0.0.2: bytes=32 time=0ms TTL=128

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>
```

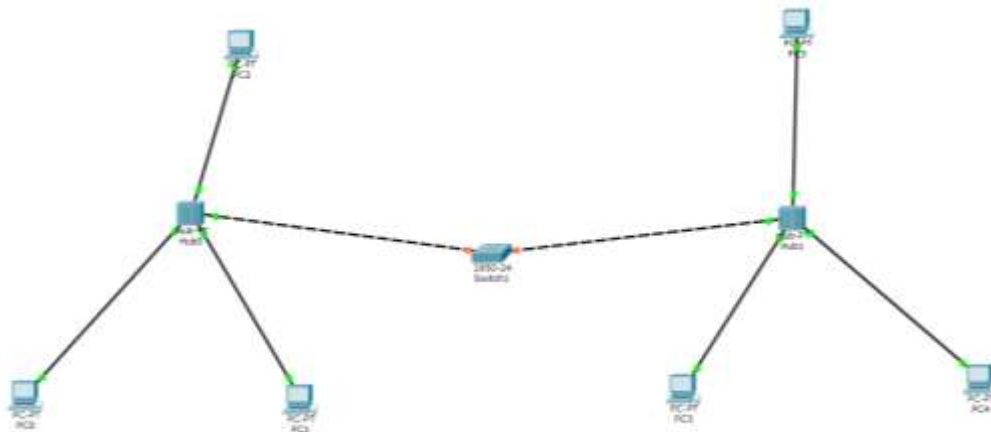
Simulation:



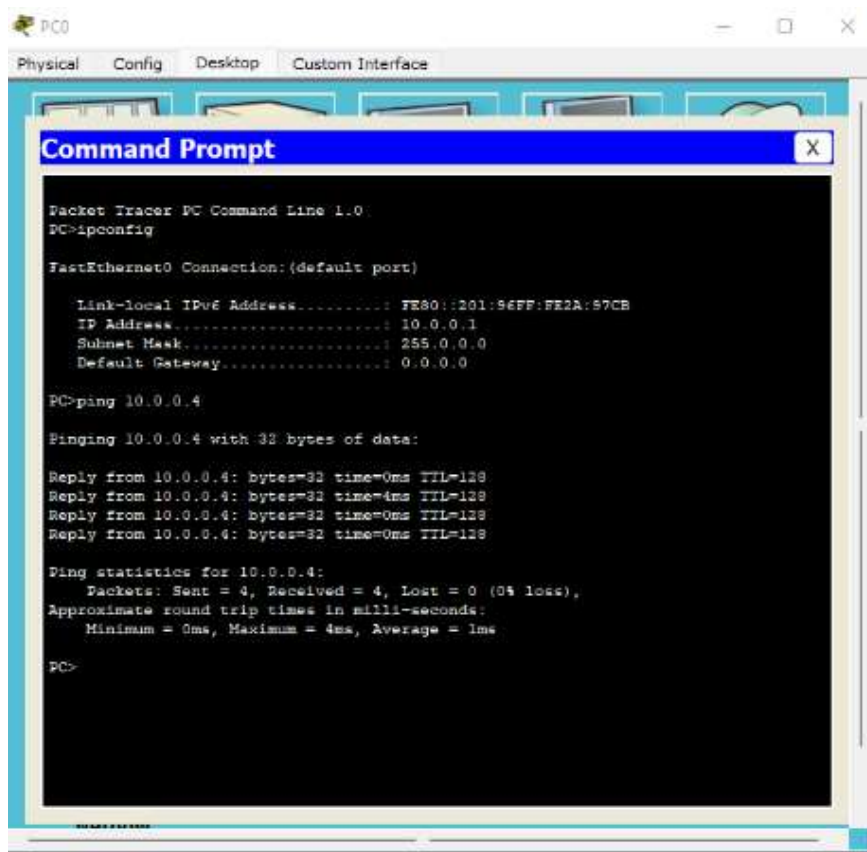
Outcome with Hybrid:

The hub broadcasts to all the connected devices including the switch, then the switch, then the switch forwards the PDU only to destination drive.

Real Time:



Ping:



Simulation:

