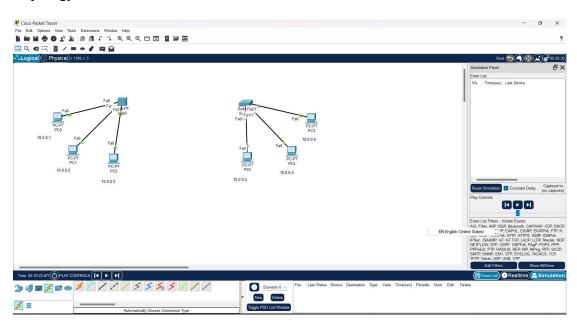
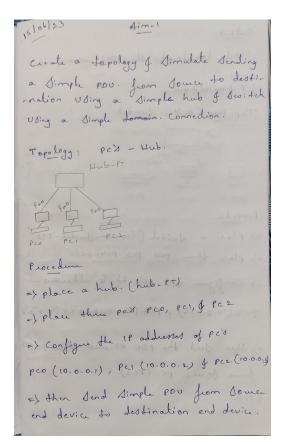
<u>Aim-1</u>

1. Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices and demonstrate ping message.

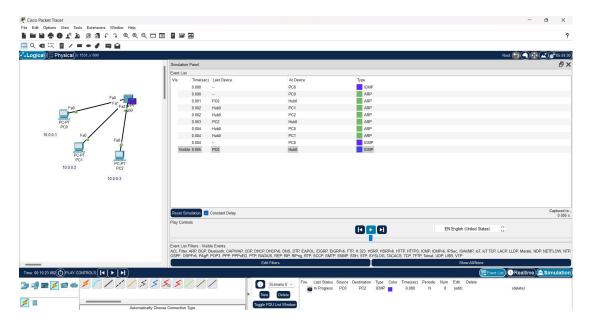
Topology:



Procedure for Hub:

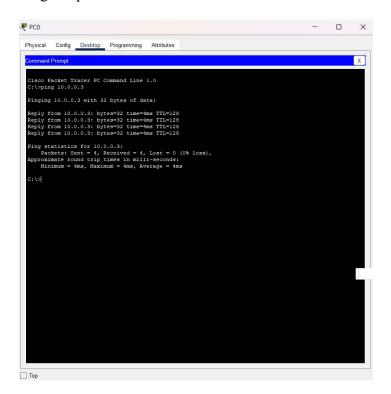


Simulation:



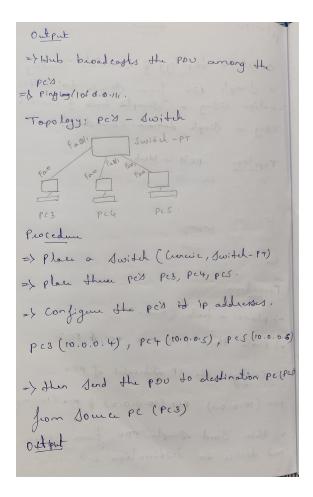
Sending PDU from source device (pc0) to destination device (pc2).

Ping Response:

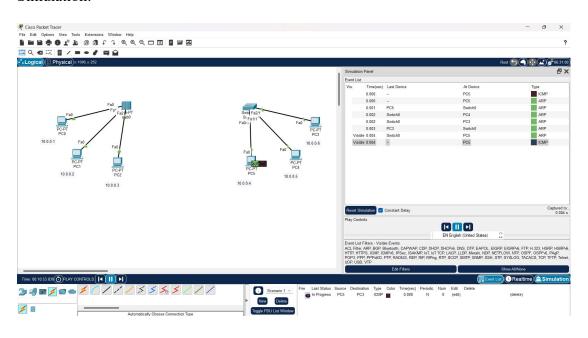


Ping response from pc0 to pc2.

Procedure for Switch:



Simulation:



Sending PDU from source device (pc5) to destination device (pc3).

Ping Response:

```
Physical Config Desktop Programming Attributes

Command Prompt

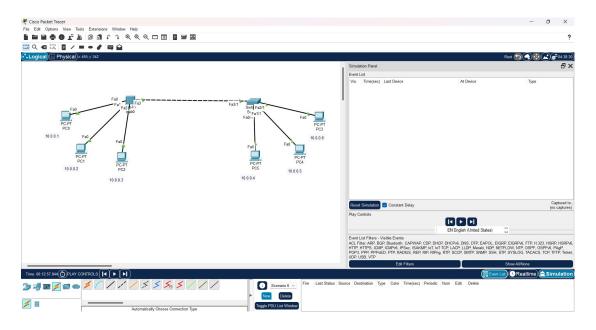
Clasco Packet Tracer FC Command Line 1.0
C1\ping 10.0.0.6 with 32 bytes of data:

Reply from 10.0.0.6 bytes=32 time=4ms TTL=128

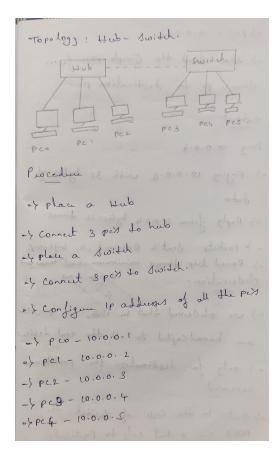
Reply from 10.0.0.6
```

Ping response from pc5 to pc3.

Topology (Hub-Switch):

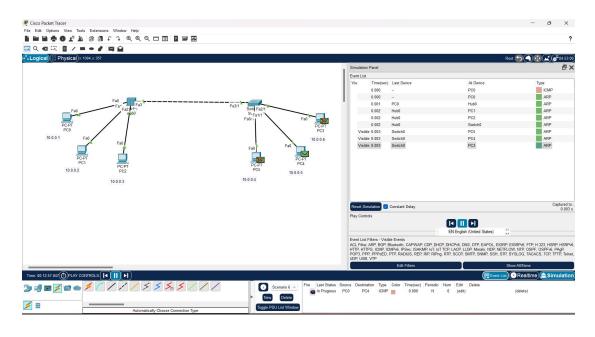


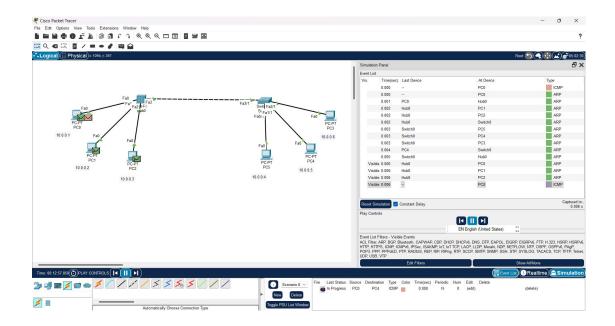
Procedure (Hub-Switch):



-> pc5 - 10.0.0.b -> then Send the Simple pour from Source pe to destination pe. duptes Ping 10.0.0.4 -> Pinging 10.0.0.4 with 32 bytes of data. =4 Reply Jeon 10.0.0.4 byts: 32 times - & Packets Sent :4 Received = 4, tost=0.1/. -> Round bip times minimum ond, maningon, Avuge -oms. observation: => we observed that in Hub, the partiets are broad cayled to all the end devices - I only for destination the packets are rucived =4 But in the copy of switch, the pour are a sect only to Particular

Simulation:





Sending PDU from source device (pc0) to destination device (pc4).

Ping Response:

```
PC0
                                                                                                                                                                                                                 ×
   Physical Config Desktop Programming Attributes
   Command Prompt
                                                                                                                                                                                                                             Χ
    Cisco Packet Tracer PC Command Line 1.0 C:\>ping 10.0.0.3
     Pinging 10.0.0.3 with 32 bytes of data:
    Reply from 10.0.0.3: bytes=32 time=4ms TTL=128
    Ping statistics for 10.0.0.3:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 4ms, Maximum = 4ms, Average = 4ms
     C:\>ping 10.0.0.4
    Pinging 10.0.0.4 with 32 bytes of data:
    Reply from 10.0.0.4: bytes=32 time=6ms TTL=128
    Ping statistics for 10.0.0.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 6ms, Maximum = 6ms, Average = 6ms
    C:\>
                                                                                                                                                                                                                   EN English (Un
Пор
```

Ping response from pc0 to pc5.