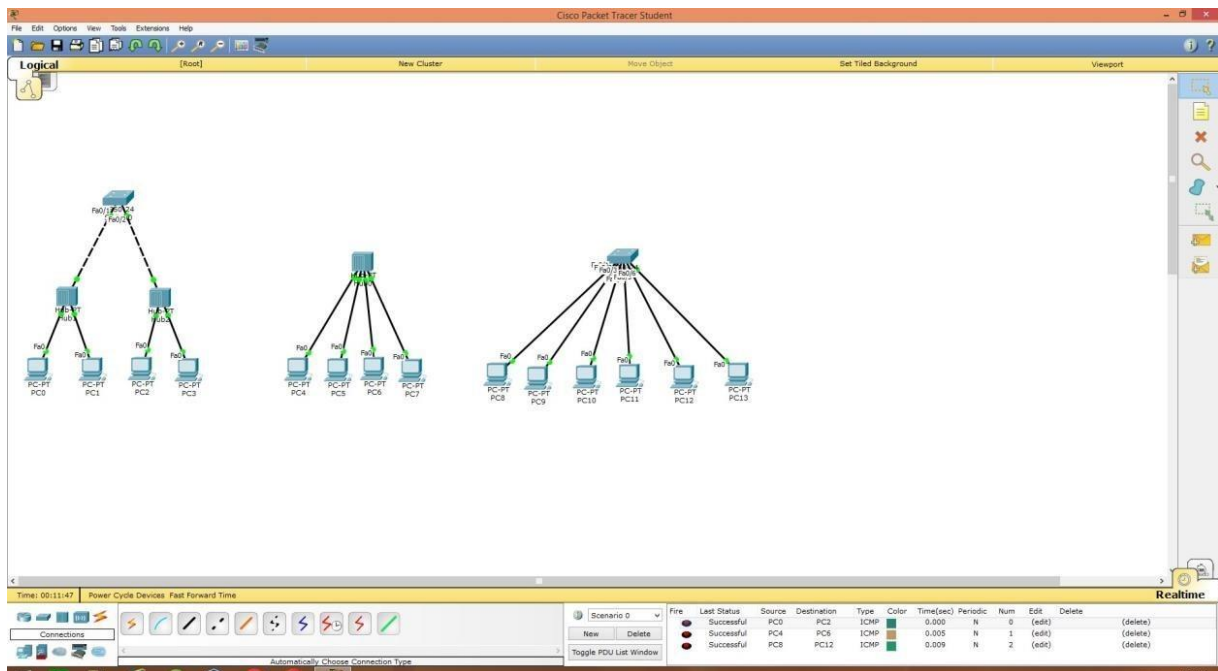
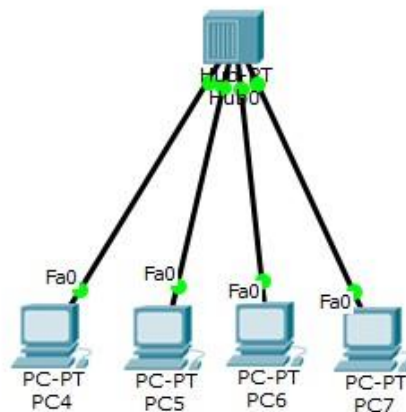


EXPERIMENT-1

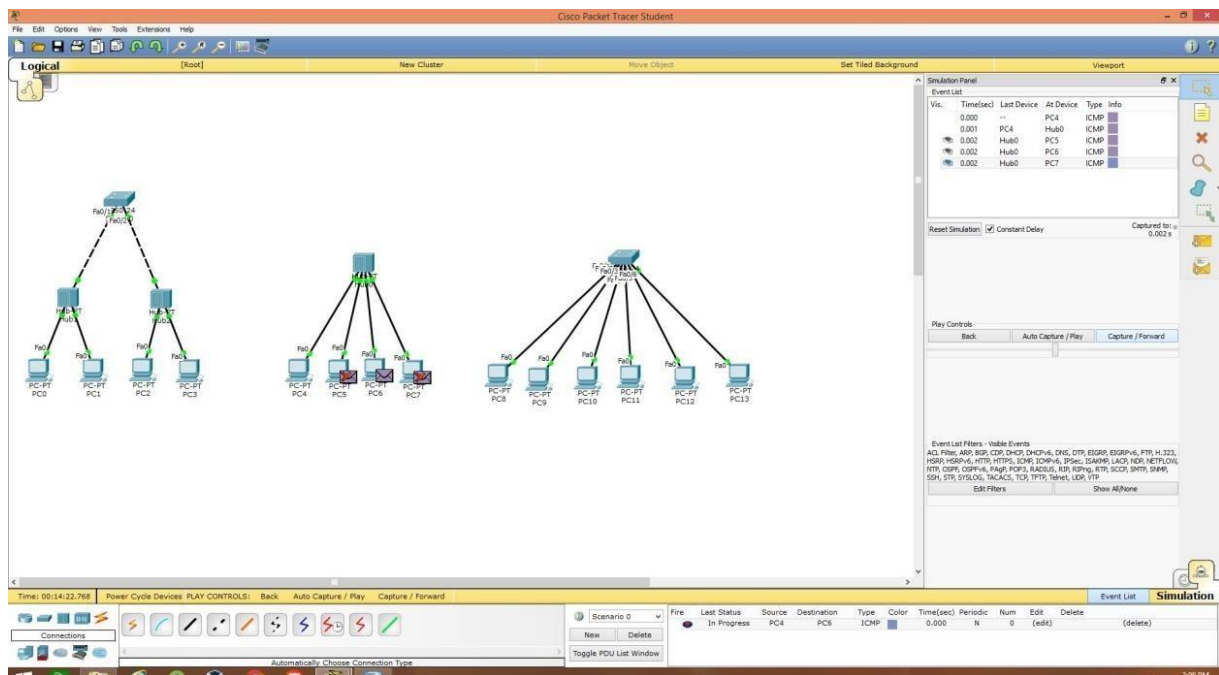
TITLE OF THE EXPERIMENT - Create a topology and simulate sending a simple PDU from source to destination using hub and switch as connecting devices and demonstrate ping message.



1. STAR TOPOLOGY USING A HUB:



Topology



Simulation of network with Hub when message is sent from PC4(IP address 10.0.0.5) to PC6(10.0.0.7)

PING RESULTS:

```

Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.7

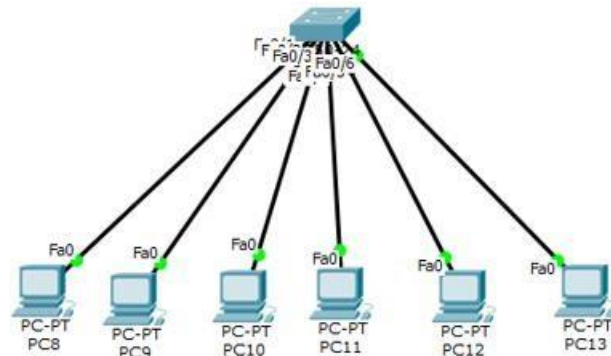
Pinging 10.0.0.7 with 32 bytes of data:

Reply from 10.0.0.7: bytes=32 time=4ms TTL=128
Reply from 10.0.0.7: bytes=32 time=4ms TTL=128
Reply from 10.0.0.7: bytes=32 time=4ms TTL=128
Reply from 10.0.0.7: bytes=32 time=4ms TTL=128

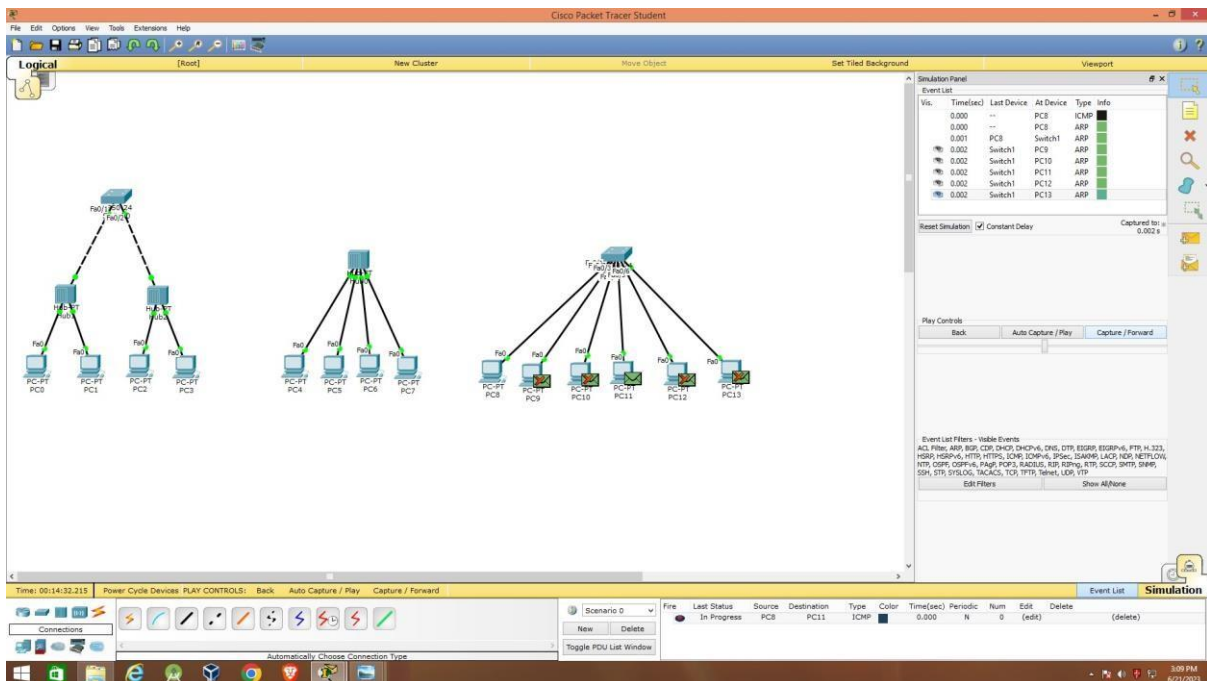
Ping statistics for 10.0.0.7:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 4ms, Average = 4ms

PC>
  
```

2.STAR TOPOLOGY USING SWITCH:

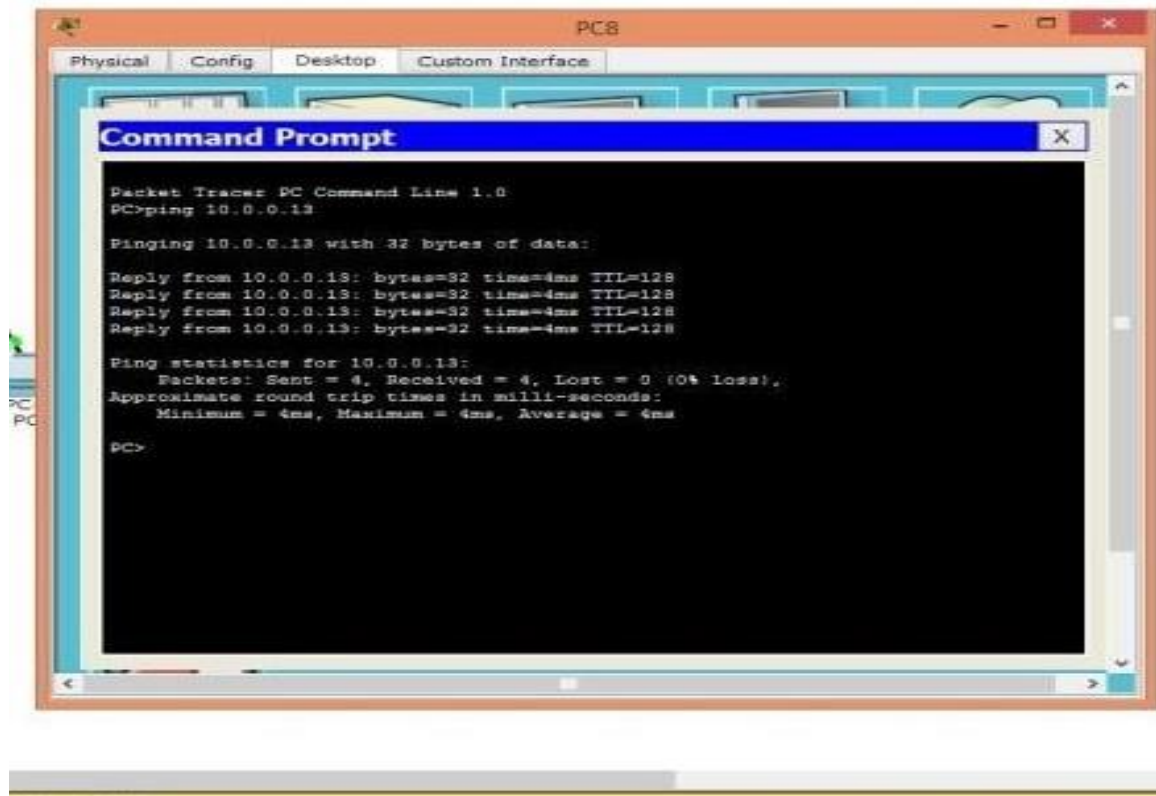


Topology

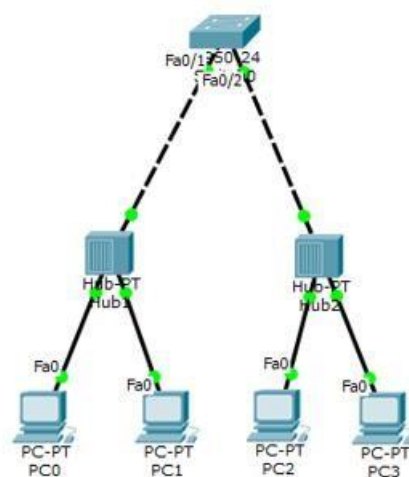


Simulation of network with Switch when message is sent from PC8(IP address 10.0.0.9) to PC11(10.0.0.13)

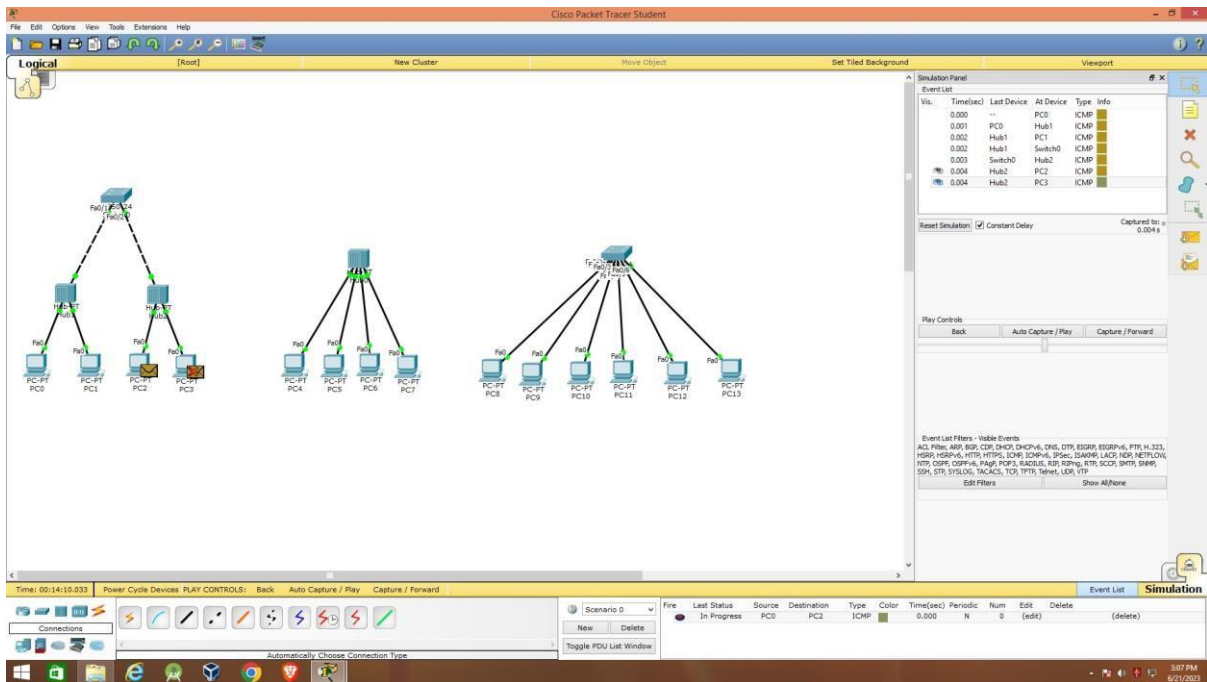
PING RESULTS:



3.HYBRID TOPOLOGY USING A SWITCH AND A HUB:



Topology



Simulation of network when message is sent from PC0(IP address 10.0.0.1) to PC2(10.0.0.3)

PING RESULTS:

```

Packet Tracer: PC Command Line 1.0
PC>10.0.0.3
Invalid Command.

PC>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time=0ms TTL=128
Reply from 10.0.0.3: bytes=32 time=0ms TTL=128
Reply from 10.0.0.3: bytes=32 time=0ms TTL=128
Reply from 10.0.0.3: bytes=32 time=0ms 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 = 0ms, Maximum = 0ms, Average = 0ms

PC>

```