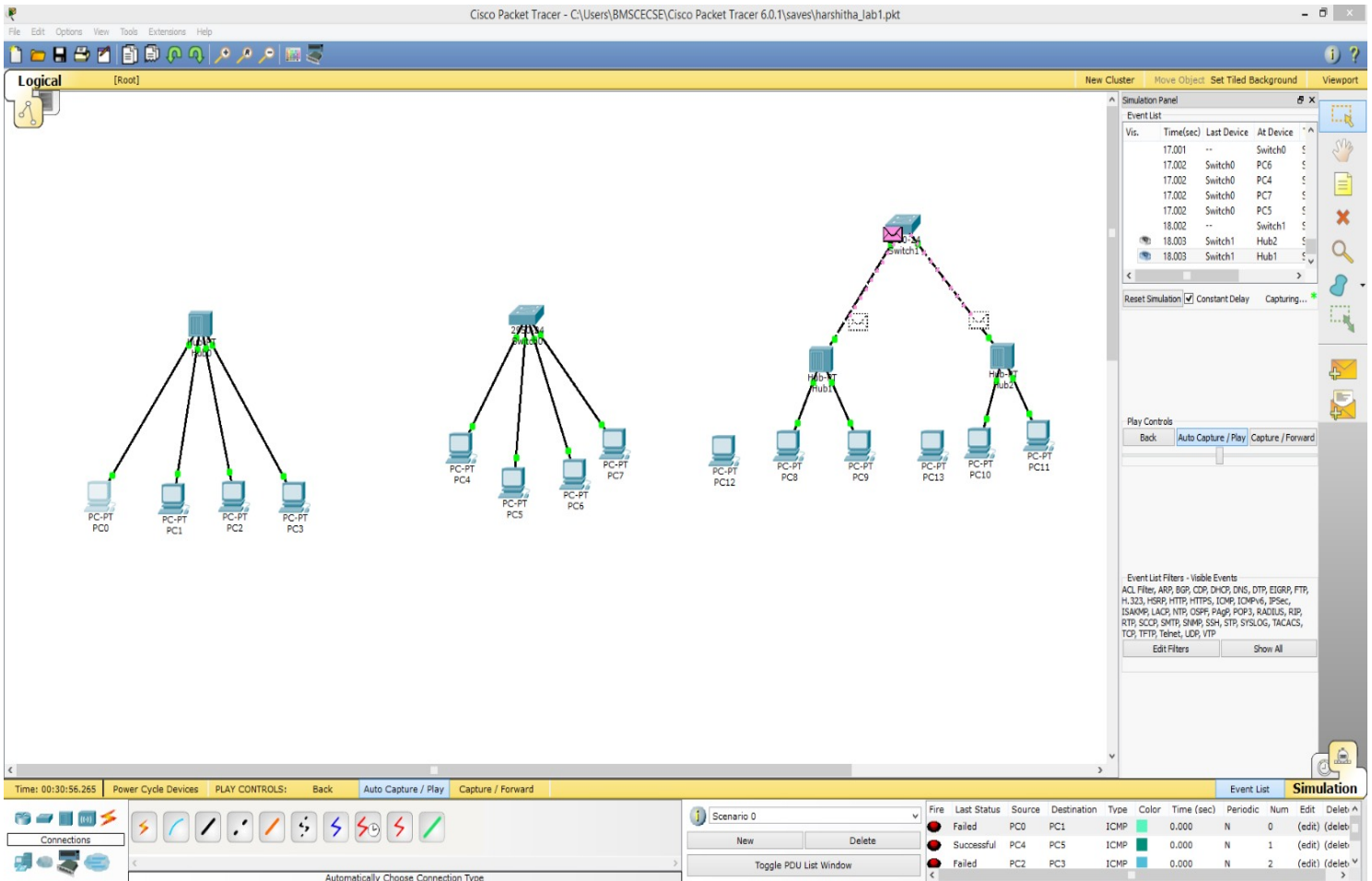


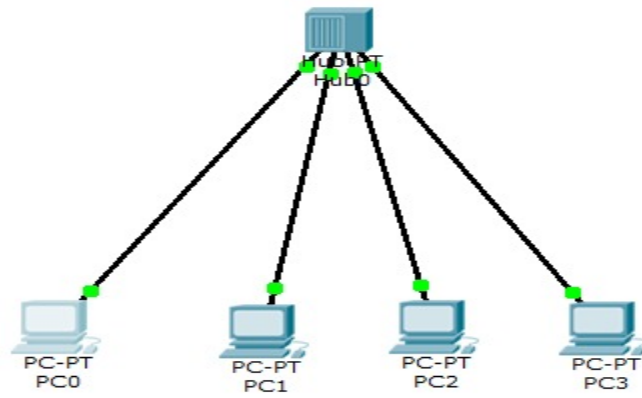
# COMPUTER NETWORKS LAB

## EXPERIMENT-01

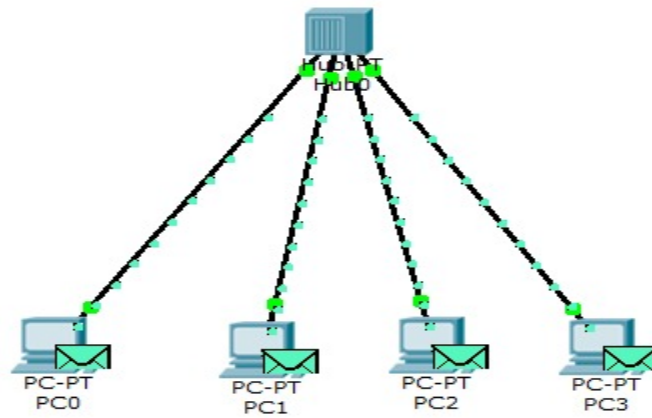


# 1.Hub

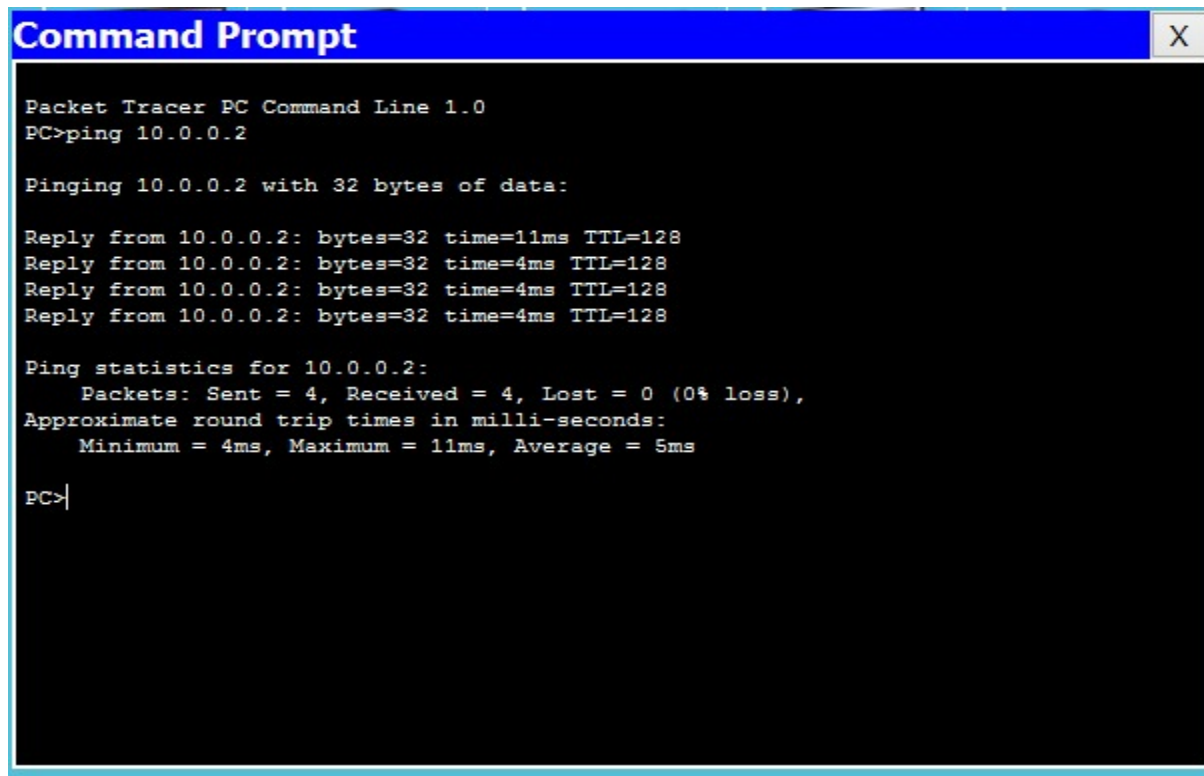
Topology:



Simulation:



Output:



The image shows a screenshot of a 'Command Prompt' window from the Packet Tracer application. The window has a blue title bar with the text 'Command Prompt' and a close button (X) on the right. The background is black with white text. The text inside the window shows the execution of a 'ping' command. It starts with 'Packet Tracer PC Command Line 1.0', followed by the user input 'PC>ping 10.0.0.2'. The output shows 'Pinging 10.0.0.2 with 32 bytes of data:' followed by four successful replies from 10.0.0.2, each showing 'bytes=32 time=11ms TTL=128' or 'time=4ms TTL=128'. Below this, it shows 'Ping statistics for 10.0.0.2:' with 'Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),'. It also shows 'Approximate round trip times in milli-seconds:' with 'Minimum = 4ms, Maximum = 11ms, Average = 5ms'. The prompt 'PC>' is visible at the bottom left.

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

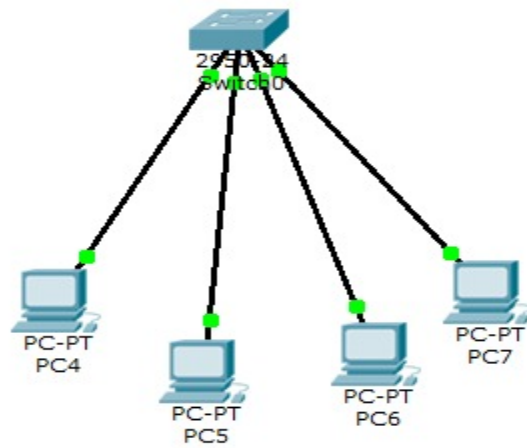
Reply from 10.0.0.2: bytes=32 time=11ms TTL=128
Reply from 10.0.0.2: bytes=32 time=4ms TTL=128
Reply from 10.0.0.2: bytes=32 time=4ms TTL=128
Reply from 10.0.0.2: bytes=32 time=4ms TTL=128

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 11ms, Average = 5ms

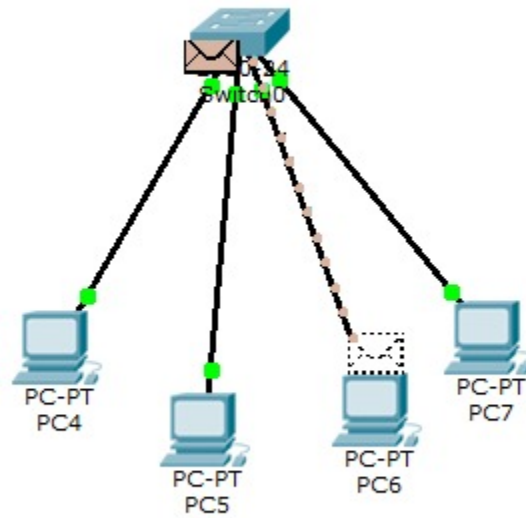
PC>
```

## 2.Switch

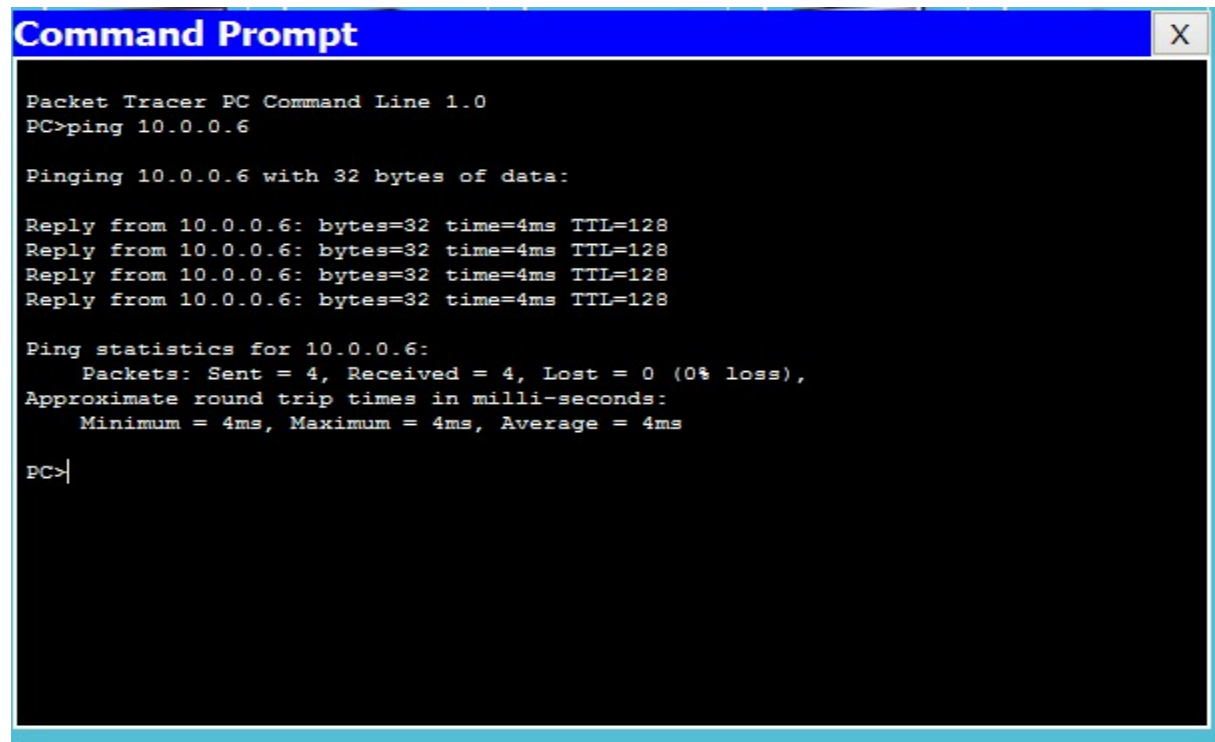
Topology:



Simulation:



Output:



The image shows a screenshot of a 'Command Prompt' window from the Packet Tracer application. The window has a blue title bar with the text 'Command Prompt' and a close button (X) in the top right corner. The main area is black with white text. The text shows the command 'PC>ping 10.0.0.6' being entered. The output indicates a successful ping to 10.0.0.6 with 32 bytes of data. Four replies are shown, each with a time of 4ms and a TTL of 128. Ping statistics are also displayed, showing 4 packets sent, 4 received, and 0% loss, with a round trip time of 4ms.

```
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.6

Pinging 10.0.0.6 with 32 bytes of data:

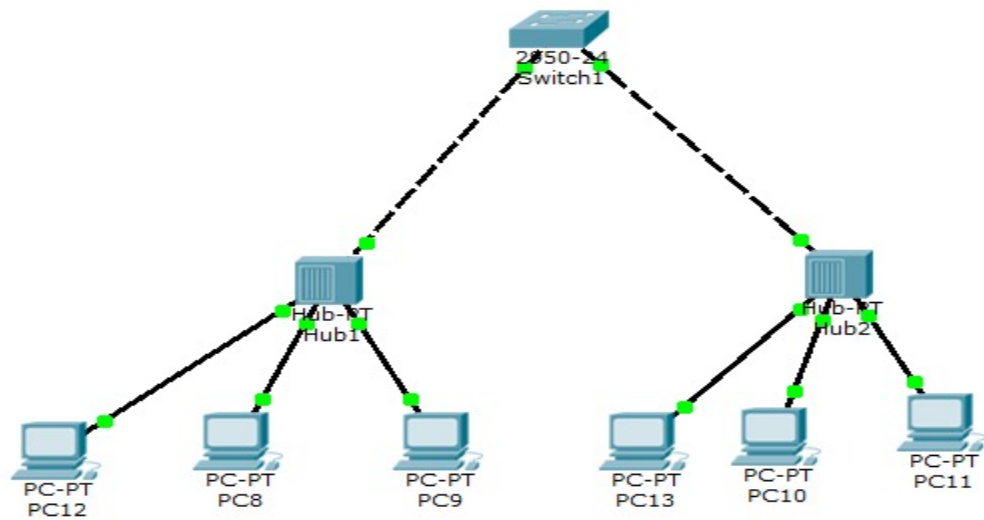
Reply from 10.0.0.6: bytes=32 time=4ms TTL=128
Reply from 10.0.0.6: bytes=32 time=4ms TTL=128
Reply from 10.0.0.6: bytes=32 time=4ms TTL=128
Reply from 10.0.0.6: bytes=32 time=4ms TTL=128

Ping statistics for 10.0.0.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 4ms, Average = 4ms

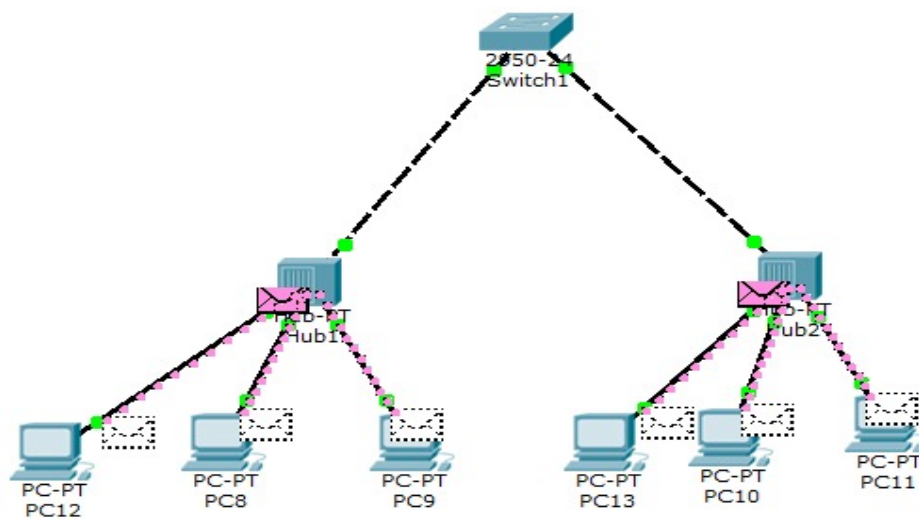
PC>|
```

### 3.Hybrid (Hub +Switch)

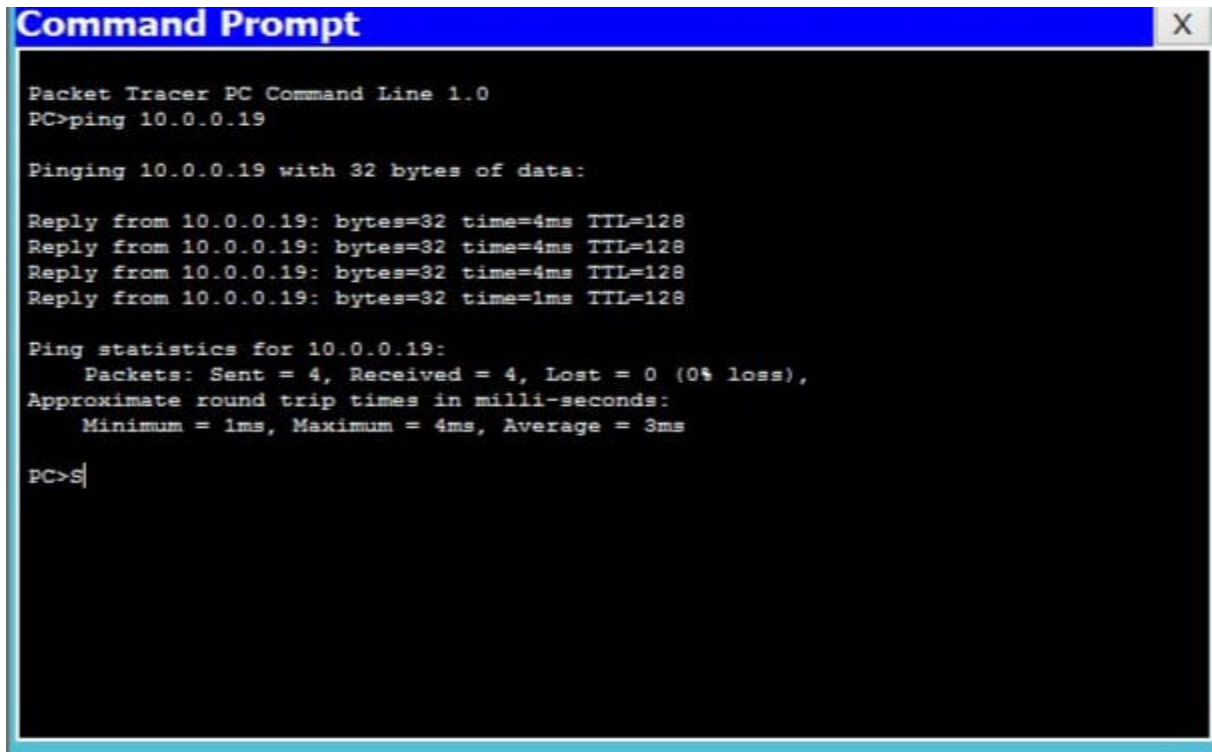
Topology:



Simulation:



Output:



```
Command Prompt
X

Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.19

Pinging 10.0.0.19 with 32 bytes of data:

Reply from 10.0.0.19: bytes=32 time=4ms TTL=128
Reply from 10.0.0.19: bytes=32 time=4ms TTL=128
Reply from 10.0.0.19: bytes=32 time=4ms TTL=128
Reply from 10.0.0.19: bytes=32 time=1ms TTL=128

Ping statistics for 10.0.0.19:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 4ms, Average = 3ms

PC>S|
```