

Faculty of Computing



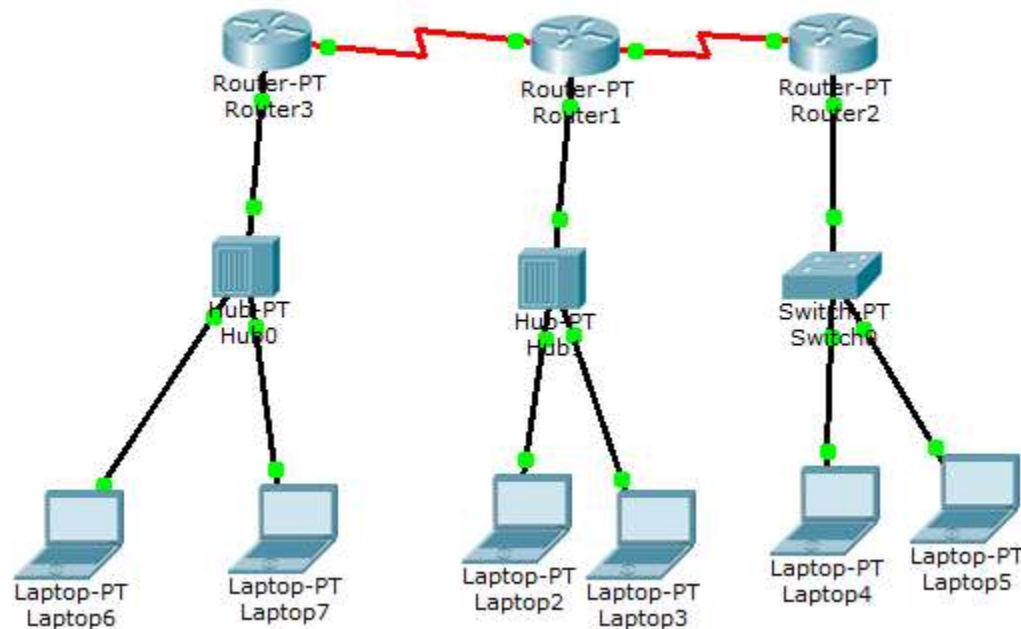
[CCN]

Lab No 8 Tasks

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Task 1:



OUTPUT

The screenshot shows a network simulation interface. On the left, there is a topology diagram similar to the one in Task 1, but with different labels: Router-PT Router2, Router-PT Router0, Router-PT Router1, Hub-PT Hub0, Hub-PT Hub1, Switch-PT Switch0, and laptops Laptop0 through Laptop5. On the right, there is a command prompt window showing the output of a ping command. The output indicates that the ping was successful, with 4 packets sent and 4 received, resulting in 0% loss. The approximate round trip times are shown as 1ms, 4ms, 1ms, and 3ms.

```
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.2: bytes=32 time=1ms TTL=126
Reply from 192.168.2.2: bytes=32 time=4ms TTL=126
Reply from 192.168.2.2: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 11ms, Average = 4ms

C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

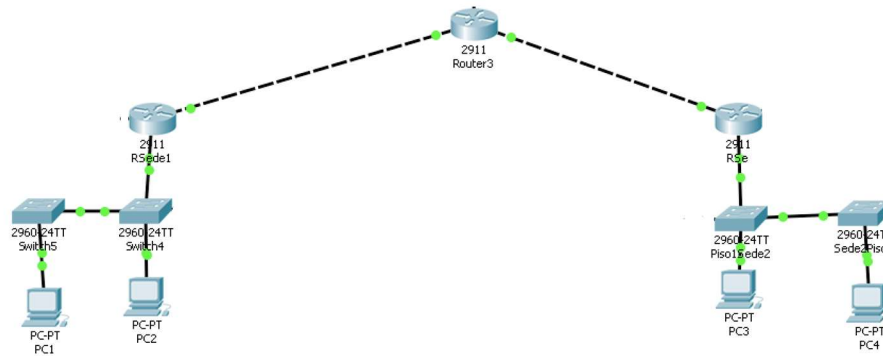
Reply from 192.168.2.2: bytes=32 time=1ms TTL=126
Reply from 192.168.2.2: bytes=32 time=4ms TTL=126
Reply from 192.168.2.2: bytes=32 time=1ms TTL=126
Reply from 192.168.2.2: bytes=32 time=3ms TTL=126

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 11ms, Average = 4ms

C:\>
```

Create the above topology and display each step in your solution with the successful ping and successful simulation. (10 marks)

Task 2:



Create the above topology and display each step in your solution with the successful ping and successful simulation. (10 marks)

OUTPUT:

The screenshot shows the Cisco Packet Tracer interface with a network topology. The topology consists of three routers (Router-PT Router2, Router-PT Router0, Router-PT Router1) connected in a triangle. Router2 is connected to two switches (2950-24 Switch4, 2950-24 Switch5), which are connected to two laptops (Laptop-PT Laptop0, Laptop-PT Laptop1). Router1 is connected to two switches (2950-24 Switch6, 2950-24 Switch7), which are connected to two laptops (Laptop-PT Laptop4, Laptop-PT Laptop5). Router0 is connected to Router2 and Router1.

The Command Prompt window shows the following output:

```

C:\>ping 192.168.6.3
Reply from 192.168.6.3: bytes=32 time=18ms TTL=125
Reply from 192.168.6.3: bytes=32 time=5ms TTL=125
Reply from 192.168.6.3: bytes=32 time=16ms TTL=125
Reply from 192.168.6.3: bytes=32 time=10ms TTL=125

Ping statistics for 192.168.6.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 5ms, Maximum = 18ms, Average = 12ms

C:\>ping 192.168.6.2
Pinging 192.168.6.2 with 32 bytes of data:
Request timed out.
Reply from 192.168.6.2: bytes=32 time=17ms TTL=125
Reply from 192.168.6.2: bytes=32 time=5ms TTL=125
Reply from 192.168.6.2: bytes=32 time=10ms TTL=125

Ping statistics for 192.168.6.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 5ms, Maximum = 17ms, Average = 10ms

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<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time=11ms TTL=128
Reply from 192.168.1.3: bytes=32 time=11ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
  
```