NETWORKING ASSIGNMENT-2

Cisco tracer lab assignments

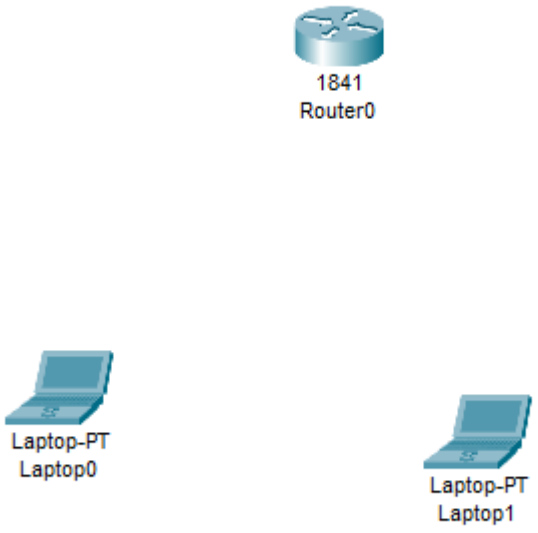
Lab Report: Router & End Devices Connection

Objective:

To configure a network connection between a router and two laptops with static IP addressing.

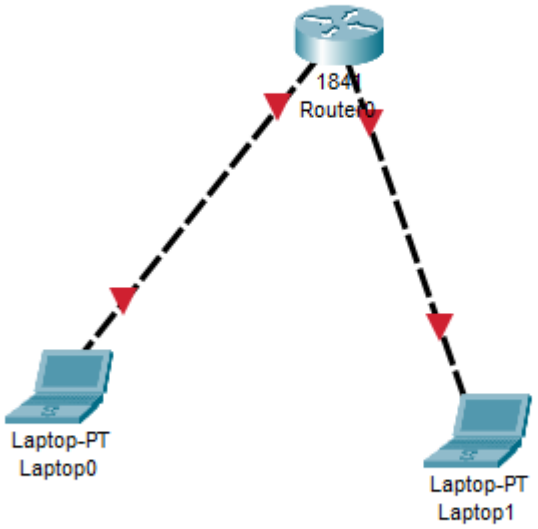
1. Network Topology

1. **Setup Devices**:
    - Place **1 Router** and **2 Laptops** (Laptop1 and Laptop2) in the Cisco Packet Tracer workspace.



2. **Connect Devices**:

- Use **Copper Straight-Through Cables** to connect:
  - Laptop1 to **Router FastEthernet0/0**.
  - Laptop2 to **Router FastEthernet0/1**.



2. IP Address Assignment

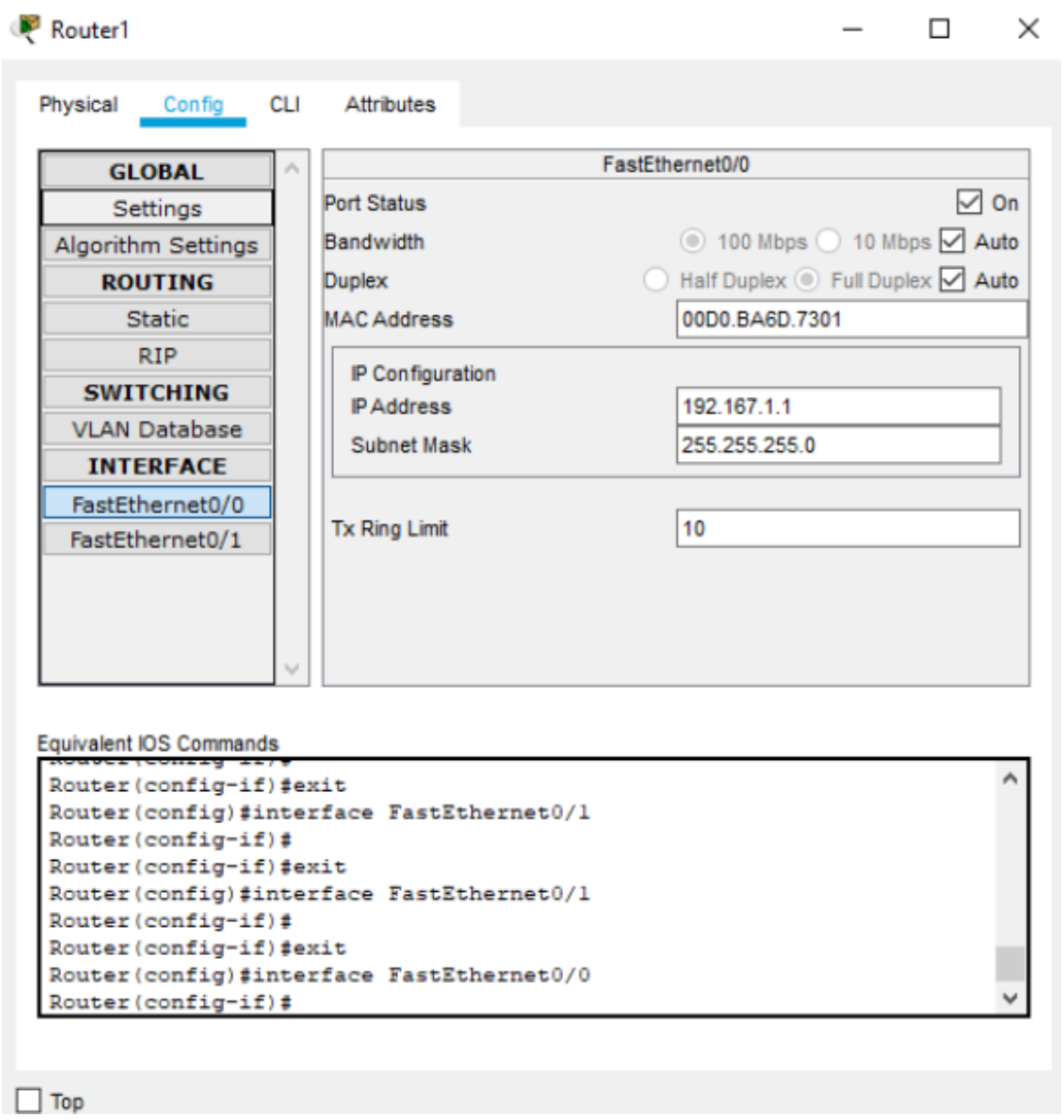
Assign IP addresses to the router interfaces and laptops.

Device	Interface	IP Address	Subnet Mask
Router	FastEthernet0/0	192.167.1.1	255.255.255.0
Router	FastEthernet0/1	192.167.2.1	255.255.255.0
Laptop1		192.167.1.2	255.255.255.0
Laptop2		192.167.2.2	255.255.255.0

3. Router Configuration

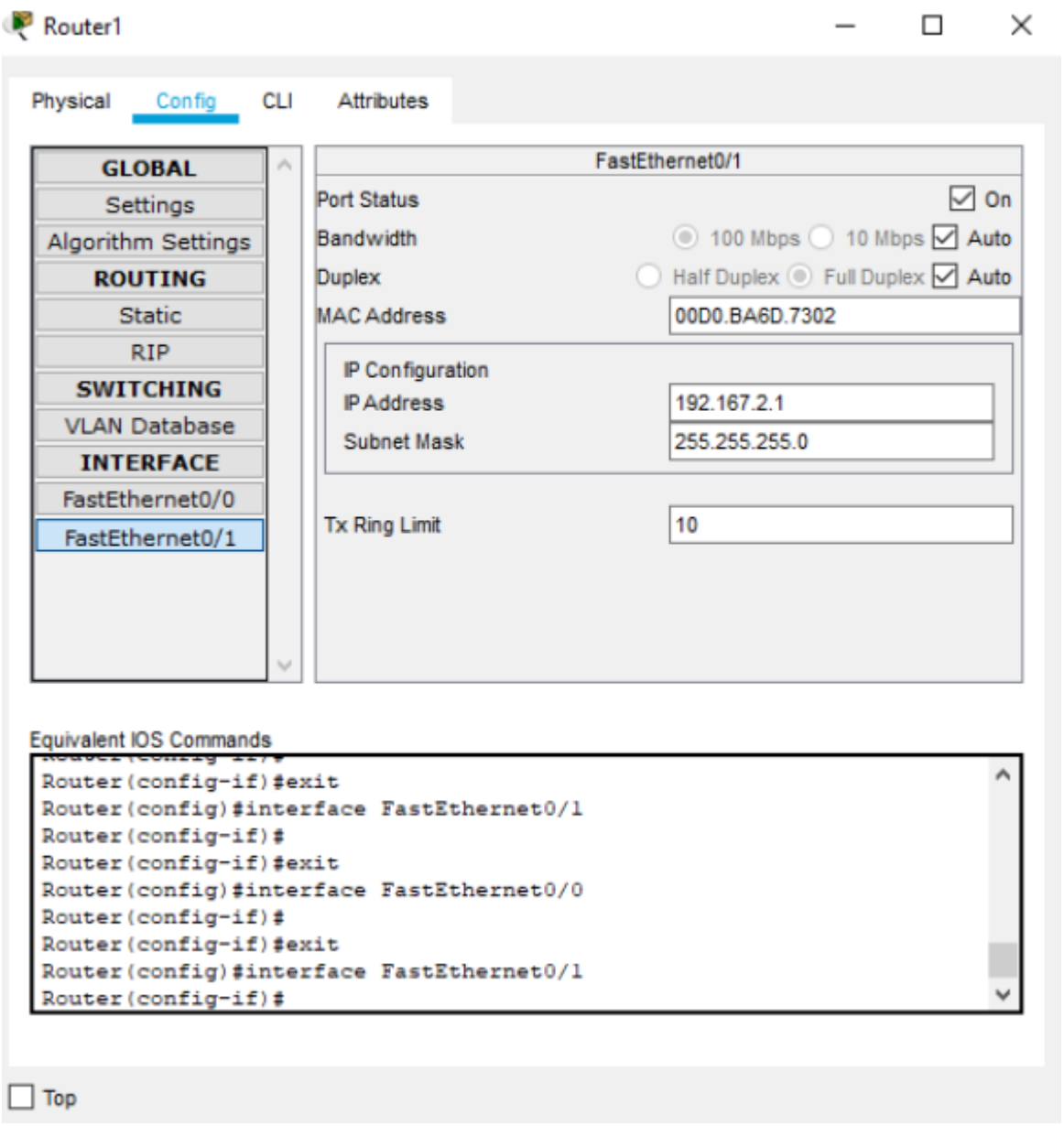
1. Access the router CLI and assign IP addresses to interfaces:
   - Configure FastEthernet0/0:

```
Router> enable
Router# configure terminal
Router(config)# interface fastethernet0/0
Router(config-if)# ip address 192.167.1.1 255.255.25
5.0
Router(config-if)# no shutdown
Router(config-if)# exit
```



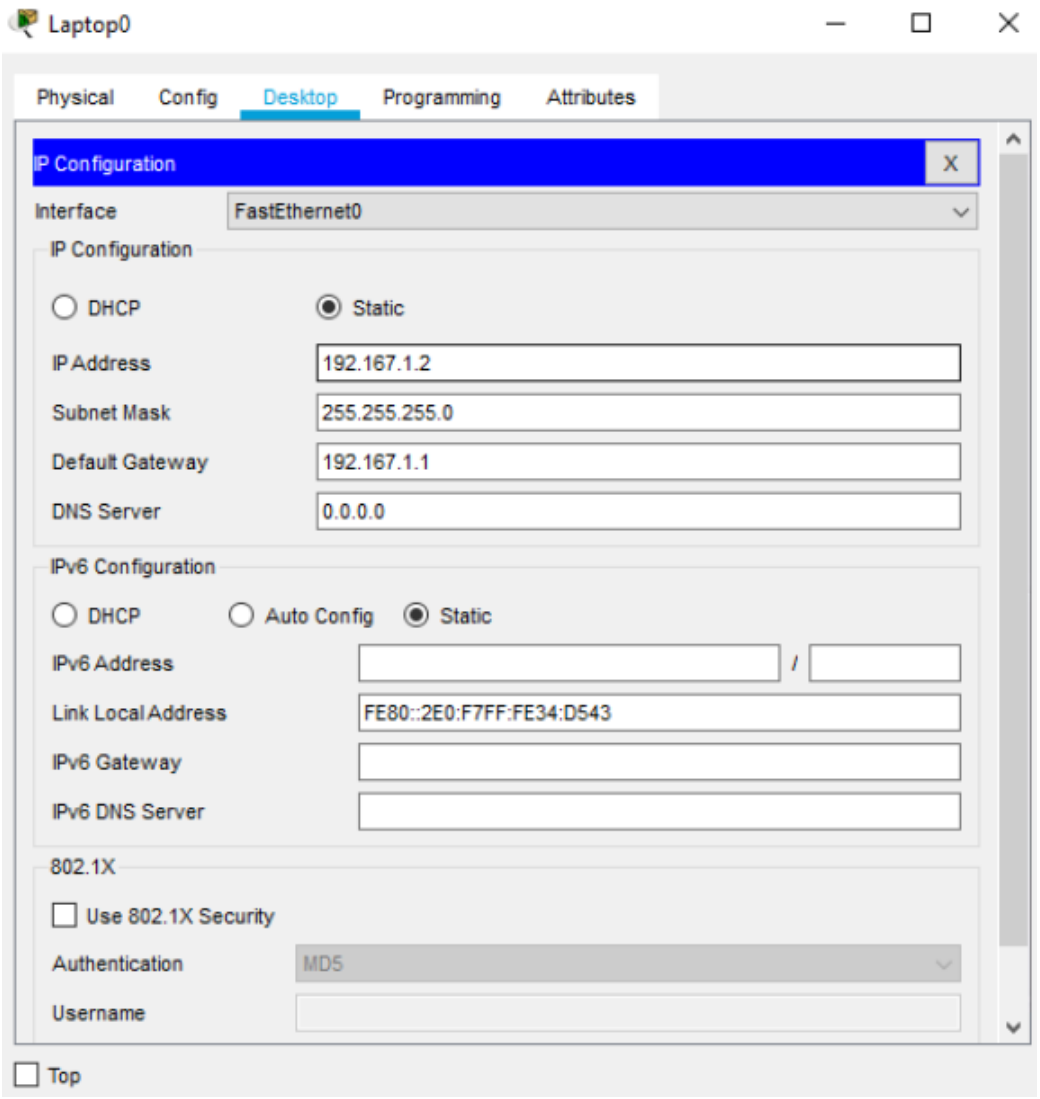
- Configure FastEthernet0/1:

```
Router(config)# interface fastethernet0/1
Router(config-if)# ip address 192.167.2.1 255.255.25
5.0
Router(config-if)# no shutdown
Router(config-if)# exit
```

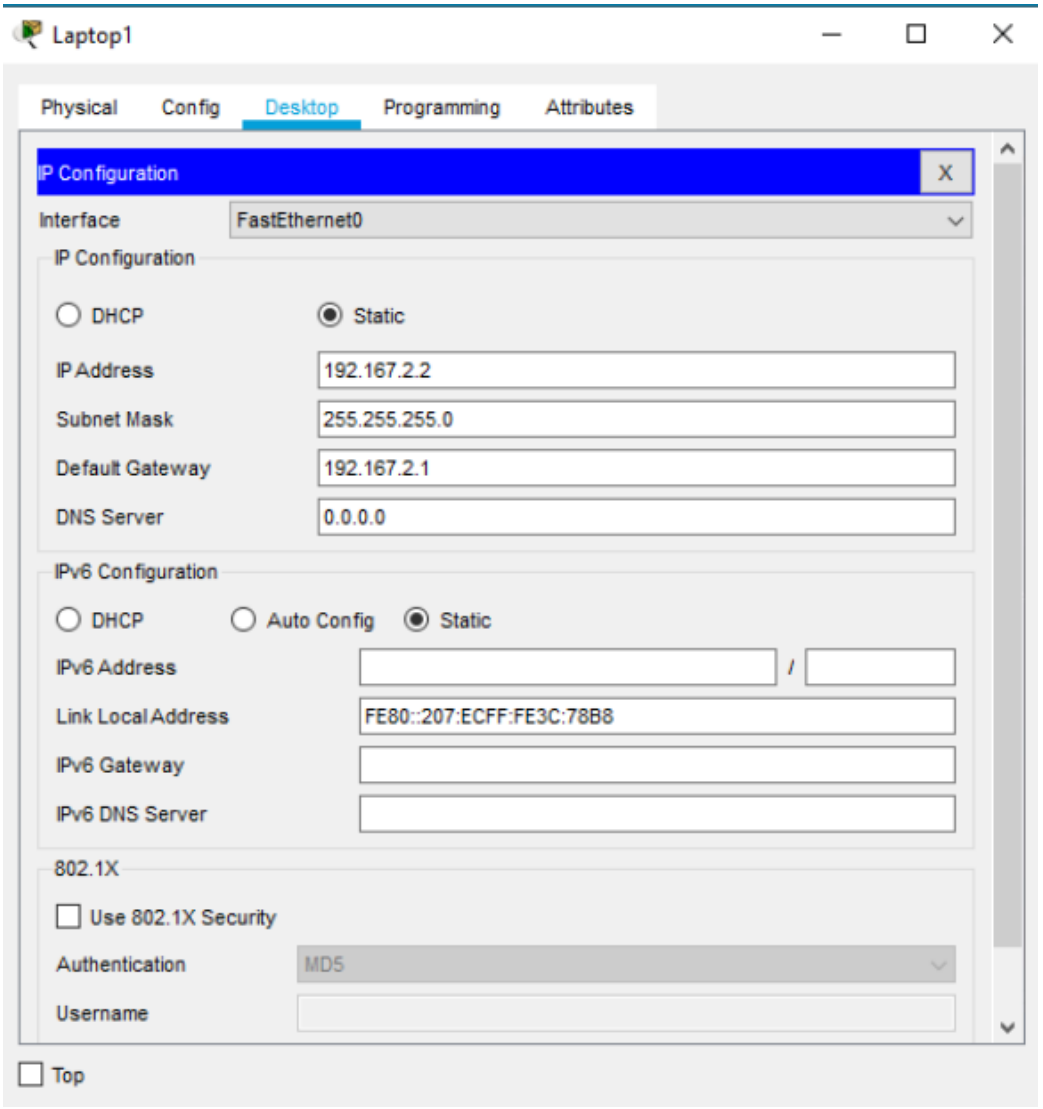


4. Laptop Configuration

1. Open **Laptop1**:
    - Go to **Config > FastEthernet0**.
    - Assign:
        - **IP Address**: 192.167.1.2
        - **Subnet Mask**: 255.255.255.0
        - **Default Gateway**: 192.167.1.1



2. Open **Laptop2**:
    - Go to **Config > FastEthernet0**.
    - Assign:
        - **IP Address**: 192.167.2.2
        - **Subnet Mask**: 255.255.255.0
        - **Default Gateway**: 192.167.2.1

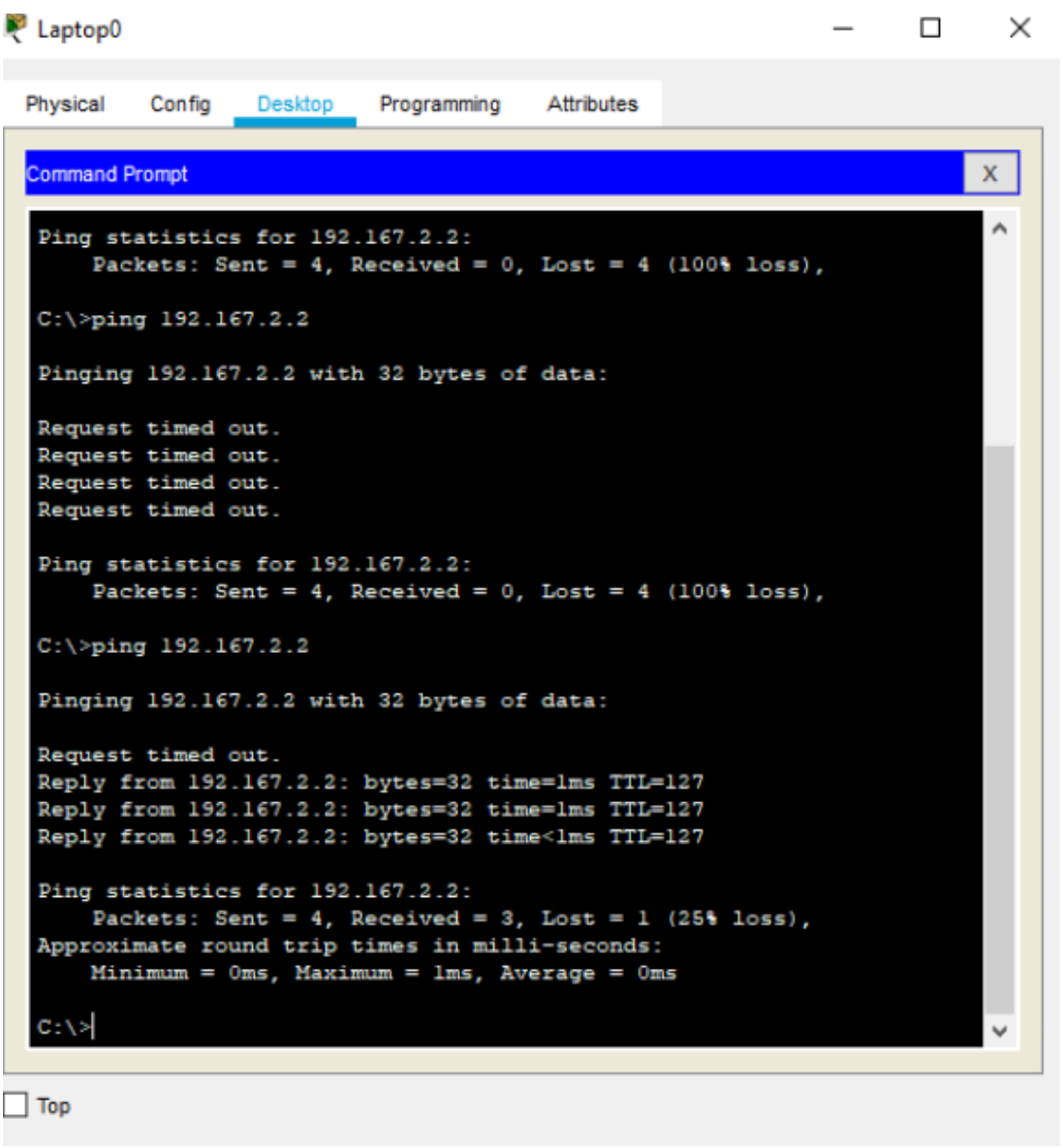


5. Verify Connectivity

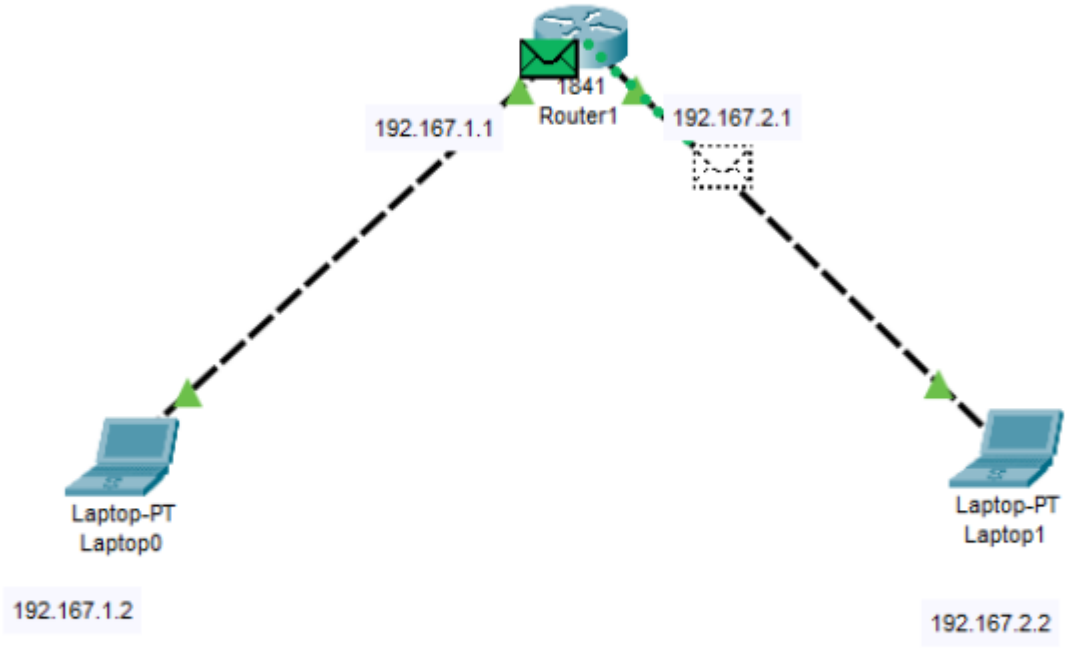
1. Perform **Ping Tests**:

- From Laptop1 (192.167.1.2) to Laptop2 (192.167.2.2).
- Open the Command Prompt on Laptop1 and type:

```
ping 192.167.2.2
```



6. Final Look



Conclusion

The router successfully connects and routes traffic between the two laptops, confirming proper static routing and IP configuration.

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