**Configuring the Router**

**Steps**

**Establish a Network**

1. **1. Create the Topology**
2. Open **Cisco Packet Tracer**.
3. Add the necessary devices from the device menu, such as:
4. A **Router** (e.g., 1941, 2811).
5. End devices (e.g., **PCs** or **Laptops**).
6. **Switches** if required.
7. Connect devices using appropriate cables:
8. **Straight-through cable** for PC to switch and switch to router.
9. **Crossover cable** for PC to router (if directly connected).
10. Packet Tracer will auto-select the appropriate cable in **"Auto Connection"** mode.

**Configure Router Interfaces**

1. **Enter CLI Mode**:
   * Click the router.
   * Select the **CLI tab**.
2. **Access Global Configuration Mode**:

* Router> enable
* Router# configure terminal

1. **Configure Interfaces**: Assign an IP address and subnet mask to the router's interface connected to the network.

Example for **GigabitEthernet 0/0**:

* Router(config)# interface gigabitethernet 0/0
* Router(config-if)# ip address 192.168.1.1 255.255.255.0
* Router(config-if)# no shutdown

1. **Configure Other Interfaces** (if needed): Repeat the steps above for additional interfaces.
2. **Exit Interface Configuration**:

* Router(config-if)# exit