## **Introduction: Types of Wired and Wireless Connections**

In networking, connections are mainly categorized into **wired** and **wireless** types. Each type has several subtypes, based on how data is transmitted.

### **🔌 Types of Wired Connections:**

1. **Ethernet (LAN Cable)**
   * Most common wired connection in homes and offices.
   * Provides fast and stable internet.
2. **Coaxial Cable**
   * Used in cable internet and TV connections.
   * Offers good signal quality over long distances.
3. **Fiber Optic Cable**
   * Uses light signals for data.
   * Extremely fast and used for high-speed internet and backbone networks.

### **📡 Types of Wireless Connections:**

1. **Wi-Fi**
   * Connects devices to the internet without cables.
   * Common in homes, cafes, and schools.
2. **Bluetooth**
   * Short-range wireless connection.
   * Used for connecting headphones, keyboards, and phones.
3. **Mobile Data (4G/5G)**
   * Internet via cellular networks.
   * Useful for smartphones and remote areas.
4. **Infrared & NFC**
   * Used in remote controls or for short-range file sharing.

### **✅ Conclusion:**

Both **wired** and **wireless** connections have their own uses. Wired is faster and more reliable, while wireless offers freedom and flexibility. Together, they form the backbone of modern communication.