**Write a small introduction on types of wired and wireless networks.**

**Introduction to Types of Wired and Wireless Networks**

Computer networks can be broadly categorized into two types based on the mode of connectivity: **wired** and **wireless** networks.

**Wired Networks** use physical cables, such as Ethernet or fiber optic cables, to connect devices. Common types include:

* **LAN (Local Area Network)** – Used in homes, offices, or schools to connect computers within a limited area.
* **MAN (Metropolitan Area Network)** – Covers a city or campus, interconnecting multiple LANs.
* **WAN (Wide Area Network)** – Spans large geographic areas, like the internet.

**Wireless Networks**, on the other hand, use radio waves or infrared signals for communication. Key types include:

* **WLAN (Wireless LAN)** – Often uses Wi-Fi to connect devices within a home or office.
* **WWAN (Wireless WAN)** – Uses mobile networks (e.g., 4G, 5G) to provide connectivity over wide areas.
* **WPAN (Wireless Personal Area Network)** – Short-range communication, such as Bluetooth connections between mobile devices.

Both wired and wireless networks have their own advantages and are chosen based on speed, range, security, and convenience requirements.