**9. List down the type of Wi-Fi internet connectivity backhaul, share your home/college's wireless internet connectivity backhaul name and its properties**

**Types of Wi-Fi Internet Connectivity Backhaul**

Backhaul refers to the intermediate links between the core network (the internet) and the smaller subnetworks at the edge of the network.

Wi-Fi networks rely on different types of backhaul to connect to the internet. These include:

1. **Wired Backhaul:**

* **Fiber Optic:** Offers high speed, low latency, and excellent reliability.
* **Ethernet:** Uses LAN cables, providing a stable connection but limited to short distances.
* **Coaxial Cable:** Commonly used for cable internet, but bandwidth is often shared among users.

1. **Wireless Backhaul:**

* **Point-to-Point (P2P) Microwave Links:** Uses high-frequency radio waves for fixed-location connections.
* **Point-to-Multipoint (P2MP) Wireless:** A single base station connects multiple remote locations.
* **Satellite:** Provides internet in remote areas but suffers from high latency.
* **4G/5G Cellular Backhaul:** Uses mobile networks to deliver internet wirelessly.
* **Mesh Wi-Fi Backhaul:** Connects multiple access points wirelessly to reduce dependence on wired connections.

**My Home's Wireless Internet Connectivity Backhaul**

My internet backhaul is **4G LTE Cellular Backhaul**.

The speed test results provide further insights:

* **Download Speed:** 4.37 Mbps
* **Upload Speed:** 8.19 Mbps
* **Latency:** 59 ms
* **Server Location:** Chennai

**Properties of My Internet Backhaul:**

* **Type:** 4G LTE Cellular Backhaul
* **Speed:** Moderate (sufficient for browsing, but slow for streaming or gaming)
* **Latency:** Around 59ms
* **Reliability:** Depends on network congestion, signal strength, and environmental factors