Q2) Can you share the Wi-Fi devices that you are using day to day life, share that device's wireless capability/properties after connecting to network. Match your device to corresponding Wi-Fi Generations based on properties.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Device | Wi-Fi Standard | Frequency Band | Max Speed | Wi-Fi Generation |
| Laptop (Dell XPS 15) | 802.11ax | 2.4/5 GHz | 9.6 Gbps | Wi-Fi 6 |
| Smartphone (Samsung S22 Ultra) | 802.11ax | 2.4/5/6 GHz | 9.6 Gbps | Wi-Fi 6E |
| Smart TV (LG OLED CX55) | 802.11ac | 5 GHz | 3.5 Gbps | Wi-Fi 5 |
| Tablet (iPad Air 5th Gen) | 802.11ax | 2.4/5 GHz | 9.6 Gbps | Wi-Fi 6 |
| Wi-Fi Router (TP-Link Archer AX6000) | 802.11ax | 2.4/5 GHz | 6 Gbps | Wi-Fi 6 |
| Smart Speaker (Amazon Echo 4th Gen) | 802.11ac | 5 GHz | 3.5 Gbps | Wi-Fi 5 |
| IoT Device (Smart Bulb - Philips Hue) | 802.11n | 2.4 GHz | 600 Mbps | Wi-Fi 4 |
| Security Camera (Arlo Pro 4) | 802.11ac | 2.4/5 GHz | 3.5 Gbps | Wi-Fi 5 |
| Old Laptop (Lenovo ThinkPad T420) | 802.11n | 2.4/5 GHz | 600 Mbps | Wi-Fi 4 |
| Smartwatch | 802.11n | 2.4 GHz | 600 Mbps | Wi-Fi 4 |

**Observations:**

* Modern laptops, smartphones, support **Wi-Fi 6** or **Wi-Fi 6E**.
* IoT devices like smart bulbs and smartwatches still use **Wi-Fi 4 (802.11n)** due to low power consumption.
* Older laptops may only support **Wi-Fi 4 or Wi-Fi 5**, limiting speed.