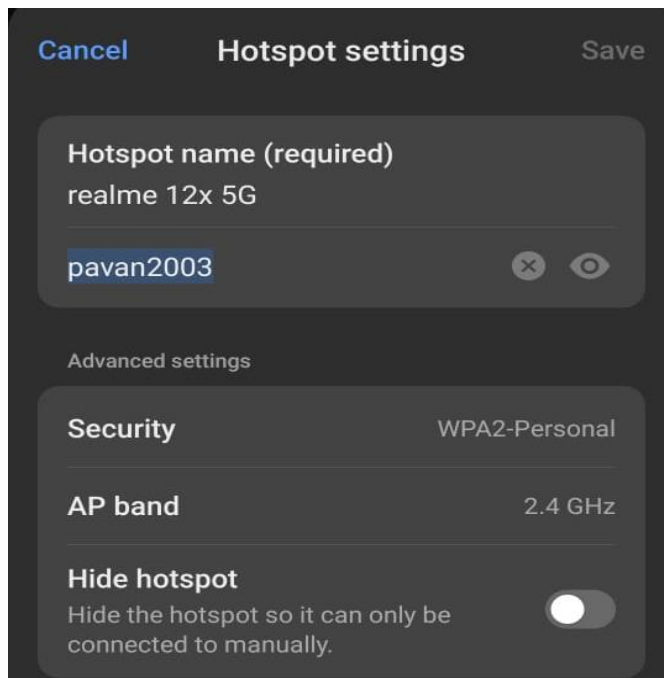


Configure your modem/hotspot to operate only in 2.4Ghz and connect your laptop/Wi-Fi device , and capture the capability/properties in your Wi-Fi device. Repeat the same in 5Ghz and tabulate all the differences you observed during this

Changing my device hotspot to 2.4Ghz:



Checking the properties of wifi in system using cmd :

```
C:\Users\pavan>netsh wlan show interfaces

There is 1 interface on the system:

    Name                       : Wi-Fi
    Description                 : MediaTek MT7921 Wi-Fi 6 802.11ax PCIe Adapter
    GUID                       : 9cea6653-53cb-431f-8bec-c93fb4f81baf
    Physical address           : d8:01:12:a8:da:f3
    Interface type              : Primary
    State                       : connected
    SSID                       : realme 12x 5G
    BSSID                      : c2:4d:a6:76:66:61
    Network type               : Infrastructure
    Radio type                 : 802.11n
    Authentication             : WPA2-Personal
    Cipher                     : CCMP
    Connection mode            : Profile
    Band                       : 2.4 GHz
    Channel                    : 11
    Receive rate (Mbps)       : 72.2
    Transmit rate (Mbps)      : 72.2
    Signal                     : 83%
    Profile                    : realme 12x 5G

    Hosted network status      : Not available
```

Observed:

Radio-type :802.11n

Channel : 11

Speed : 72/72 Mbps

Signal: 83%

Band : 2.4 GHz

Now changing My device band to 5GHZ :

Now checking the properties of my hotspot using cmd :

```
C:\Users\pavan>netsh wlan show interfaces

There is 1 interface on the system:

Name                : Wi-Fi
Description         : MediaTek MT7921 Wi-Fi 6 802.11ax PCIe Adapter
GUID                : 9cea6653-53cb-431f-8bec-c93fb4f81baf
Physical address    : d8:01:12:a8:da:f3
Interface type      : Primary
State               : connected
SSID                : realme 12x 5G
BSSID               : 56:15:63:3a:02:d1
Network type        : Infrastructure
Radio type          : 802.11ac
Authentication      : WPA2-Personal
Cipher              : CCMP
Connection mode     : Profile
Band                : 5 GHz
Channel             : 36
Receive rate (Mbps) : 433.3
Transmit rate (Mbps) : 433.3
Signal              : 93%
Profile             : realme 12x 5G

Hosted network status : Not available
```

Properties observed :

Radio-type :802.11ac

Channel : 36

Speed : 433/433 Mbps

Signal: 93%

Band : 5 GHz