WiFi Training Program 2025

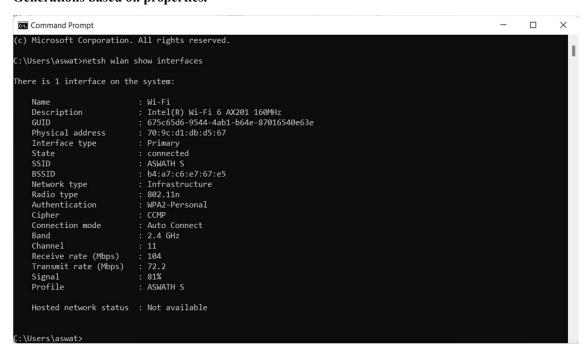
Name: Aswath S

University: VIT Vellore

Reg.No: 21BEC2188

Question-2:

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.



Property	Description
Name: Wi-Fi	The name of the network adapter (Intel Wi-Fi 6 AX201).
Description : Intel(R) Wi-Fi 6 AX201 160MHz	Your network adapter supports Wi-Fi 6 (802.11ax) with a 160 MHz channel width, but you're currently connected using an older standard (802.11n).
State: Connected	Your device is actively connected to a Wi-Fi network.
SSID: ASWATH S	The name of the Wi-Fi network (SSID) you're connected to.
BSSID : b4:a7:c6:e7:67:e5	The MAC address of your router/access point.
Notarious Lamos Introctmuoturo	This means you are connected to a standard Wi-Fi router (not adhoc or direct device-to-device).

Property	Description
Radio Type: 802.11n	Your connection is currently using Wi-Fi 4 (802.11n) , even though your adapter supports Wi-Fi 6 (802.11ax) .
Authentication: WPA2- Personal	Your Wi-Fi is secured using WPA2 , a strong encryption protocol.
Cipher: CCMP	AES-based encryption is being used, which is more secure than TKIP.
Connection Mode: Auto Connect	Your device automatically connects to this network when available.
Band: 2.4 GHz	You are connected to the 2.4 GHz band , which has better range but lower speed than 5 GHz.
Channel: 11	Your router is broadcasting on Wi-Fi Channel 11 (standard for 2.4 GHz).
Receive Rate: 104 Mbps	Your device is receiving data at a maximum speed of 104 Mbps .
Transmit Rate: 72.2 Mbps	Your device is sending data at a maximum speed of 72.2 Mbps.
Signal: 81%	Your Wi-Fi signal strength is strong (above 75% is good).
Profile: ASWATH S	The saved Wi-Fi profile on your system.

For iphone 13:

Wi-Fi Standard: 802.11ax (Wi-Fi 6)

Maximum Speed: 9.6 Gbps (theoretical)

Frequency Bands: 2.4 GHz & 5 GHz

MIMO Support: 2x2 MIMO (Multiple-Input Multiple-Output)

Security: WPA3 Compatible