WiFi Training Program 2025

Name: Aswath S

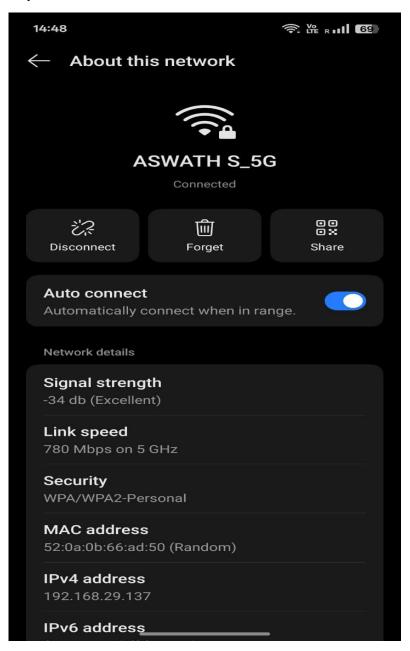
University: VIT Vellore

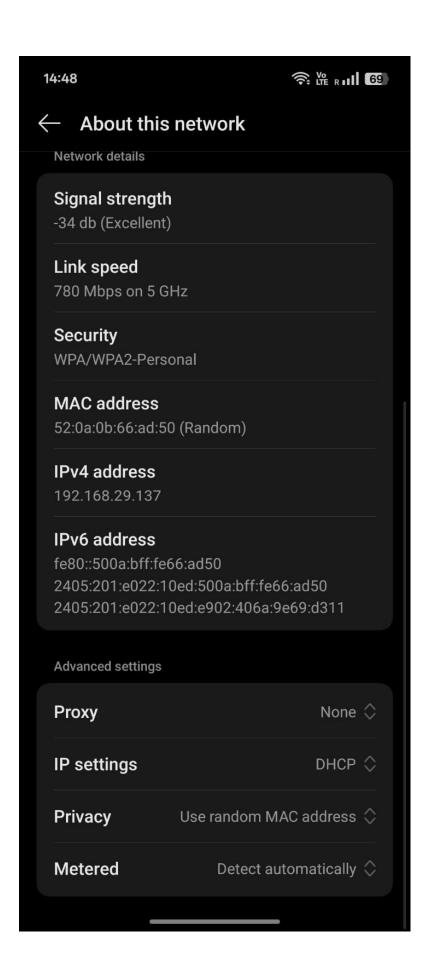
Reg.No: 21BEC2188

Question-7:

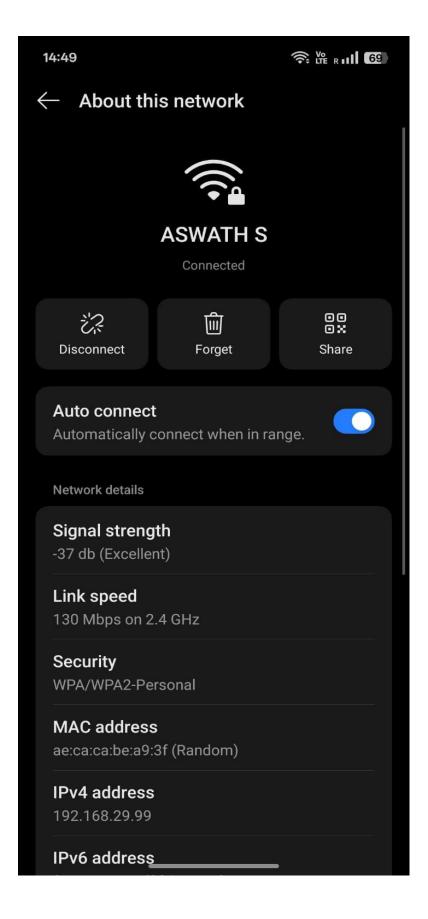
Configure your modem/hotspot to operate only in 2.4Ghz and connect your laptop/Wi-Fi device, and capture the capability/properties in your Wi-Fi device. Repeat the same in 5Ghz and tabulate all the differences you observed during this.

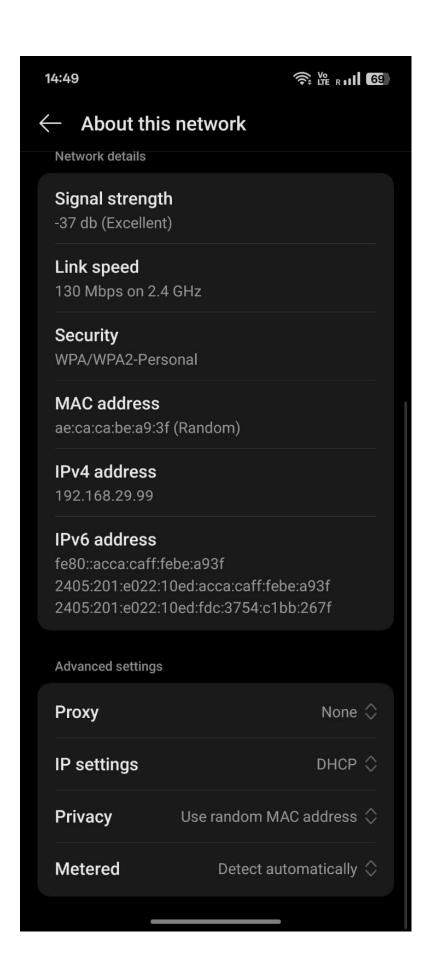
5GHZ connectivity:





2.4 GHZ:





Differences Between 2.4 GHz and 5 GHz Wi-Fi

Feature	2.4 GHz (ASWATH S)	5 GHz (ASWATH S_5G)
Link Speed	130 Mbps	780 Mbps
Frequency	2.4 GHz	5 GHz
Range	Longer (better penetration through walls)	Shorter (weaker through walls)
Interference	High (crowded with devices like microwaves, Bluetooth, etc.)	Low (fewer devices use this band)
Best Use Case	Large coverage, better stability	High-speed applications like gaming, streaming