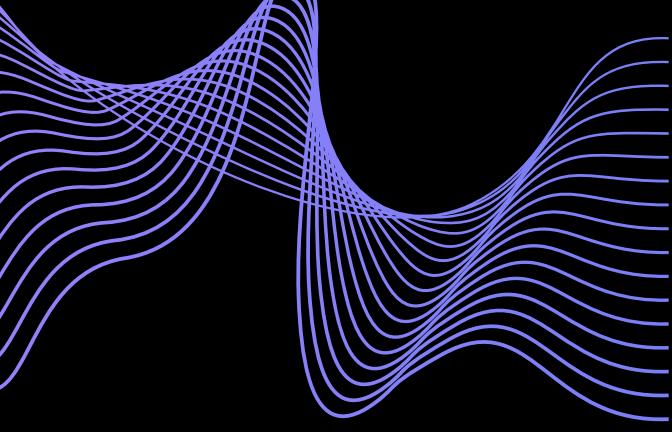




PROJECT NAME :

# GPS TRACKING DEVICE





presented by

BEETAN MUKHERJEE ,10800322065 , ECE

2ND YEAR

NUPUR DAS , 10800322071 ,ECE

2ND YEAR

SOUVIK MAITY , 10800322080, ECE

2ND YEAR

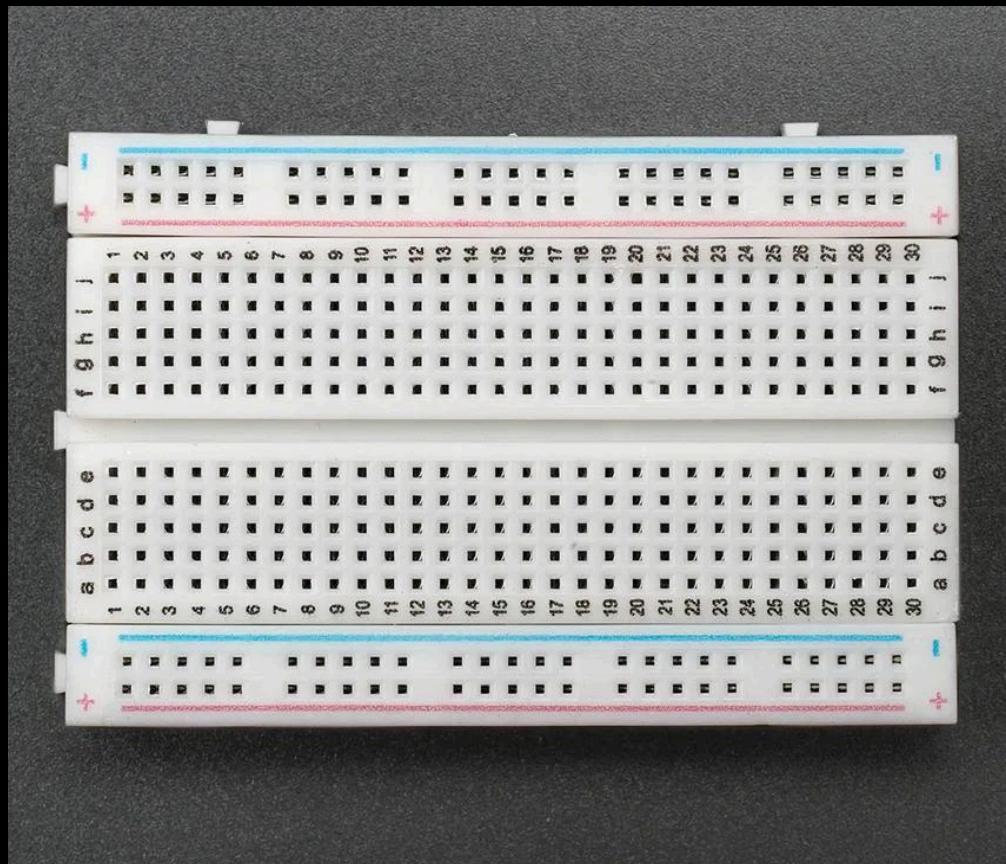
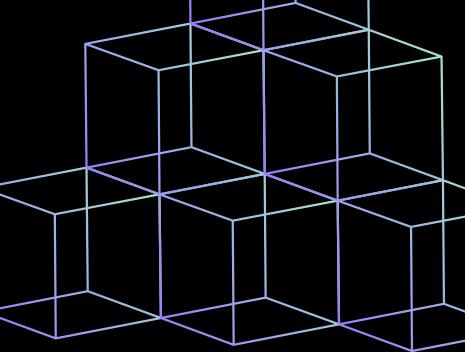
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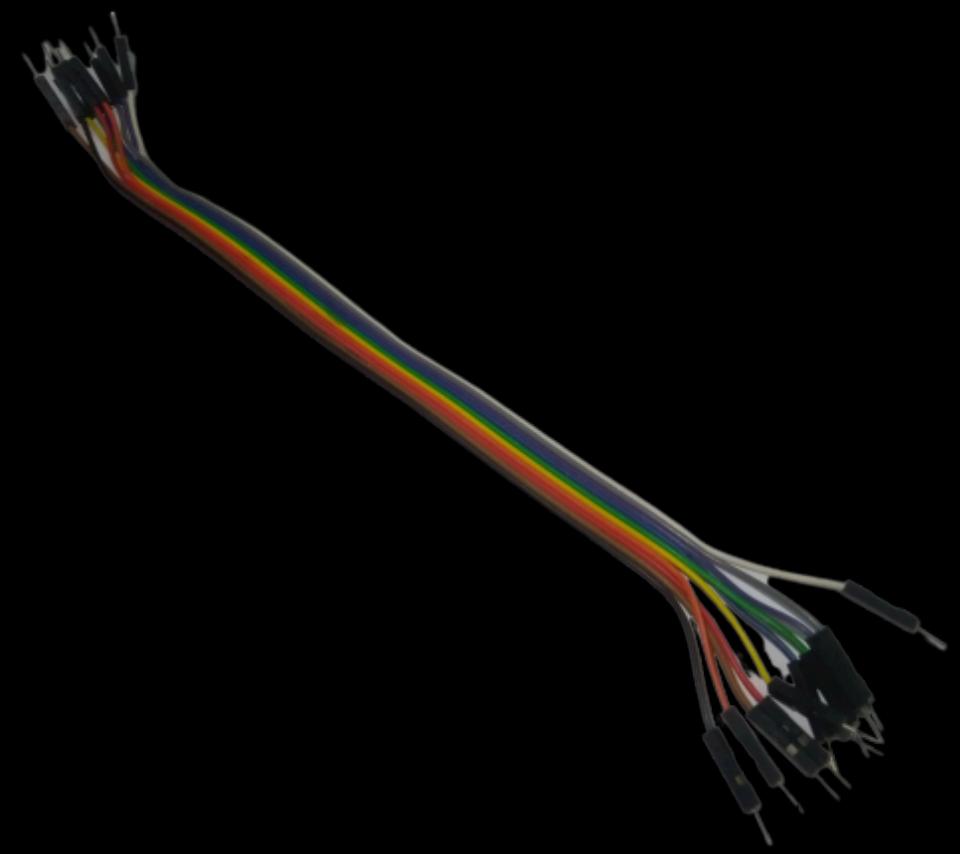
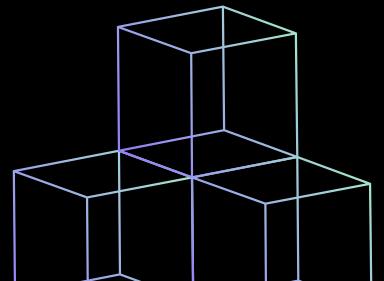
# Introduction

A GPS tracking system is a comprehensive solution that utilizes the Global positioning system to ascertain and record the location of a vehicle, person, or other asset. The Positioning System is controlled by different tracking stations located around the globe. These stations pick up microwave carrier signals transmitted by the satellites, and the GPS receivers convert these signals into data such as velocity, time, and position.

# Components



Breadboard



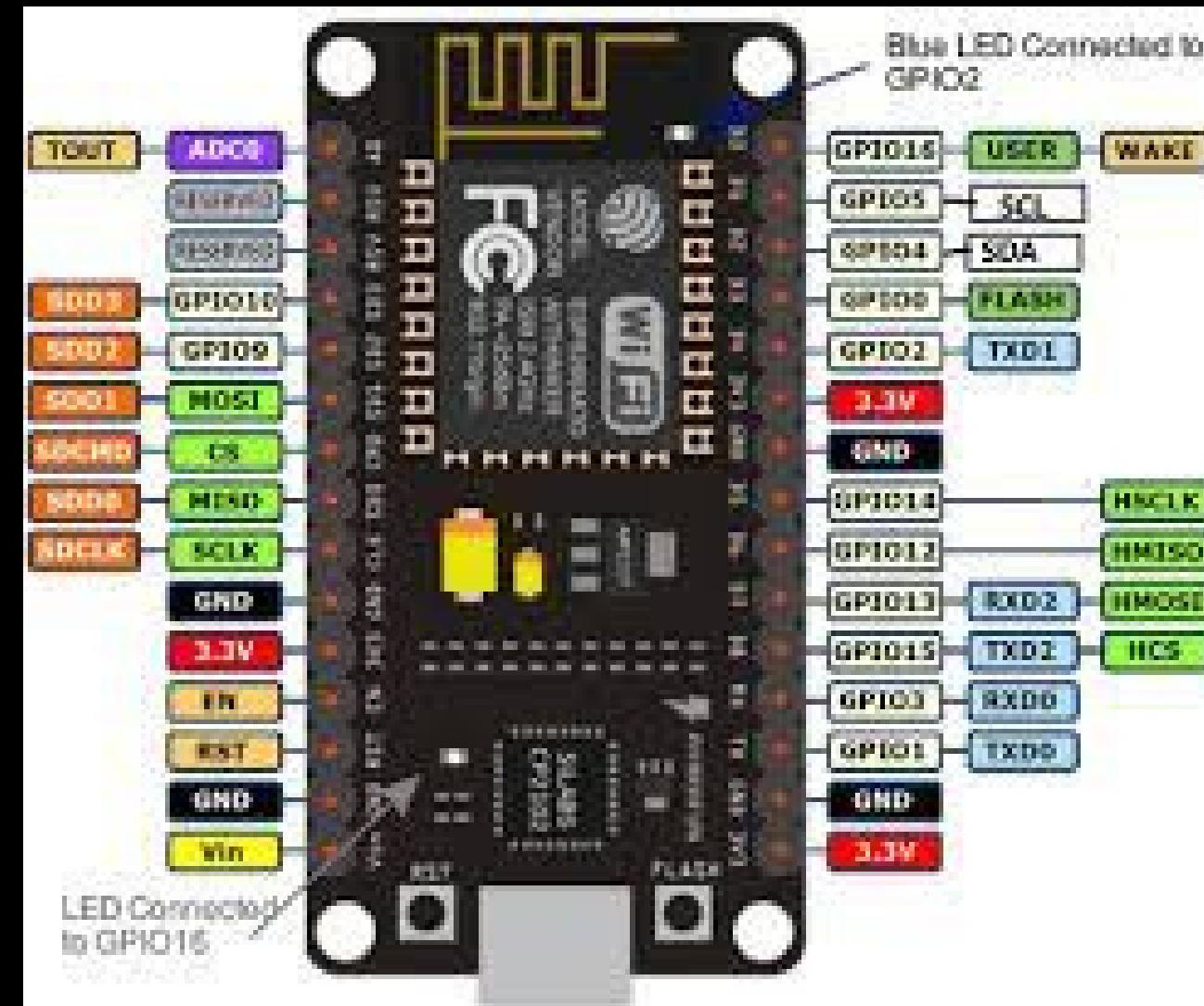
Jumpers wires  
(male to male)



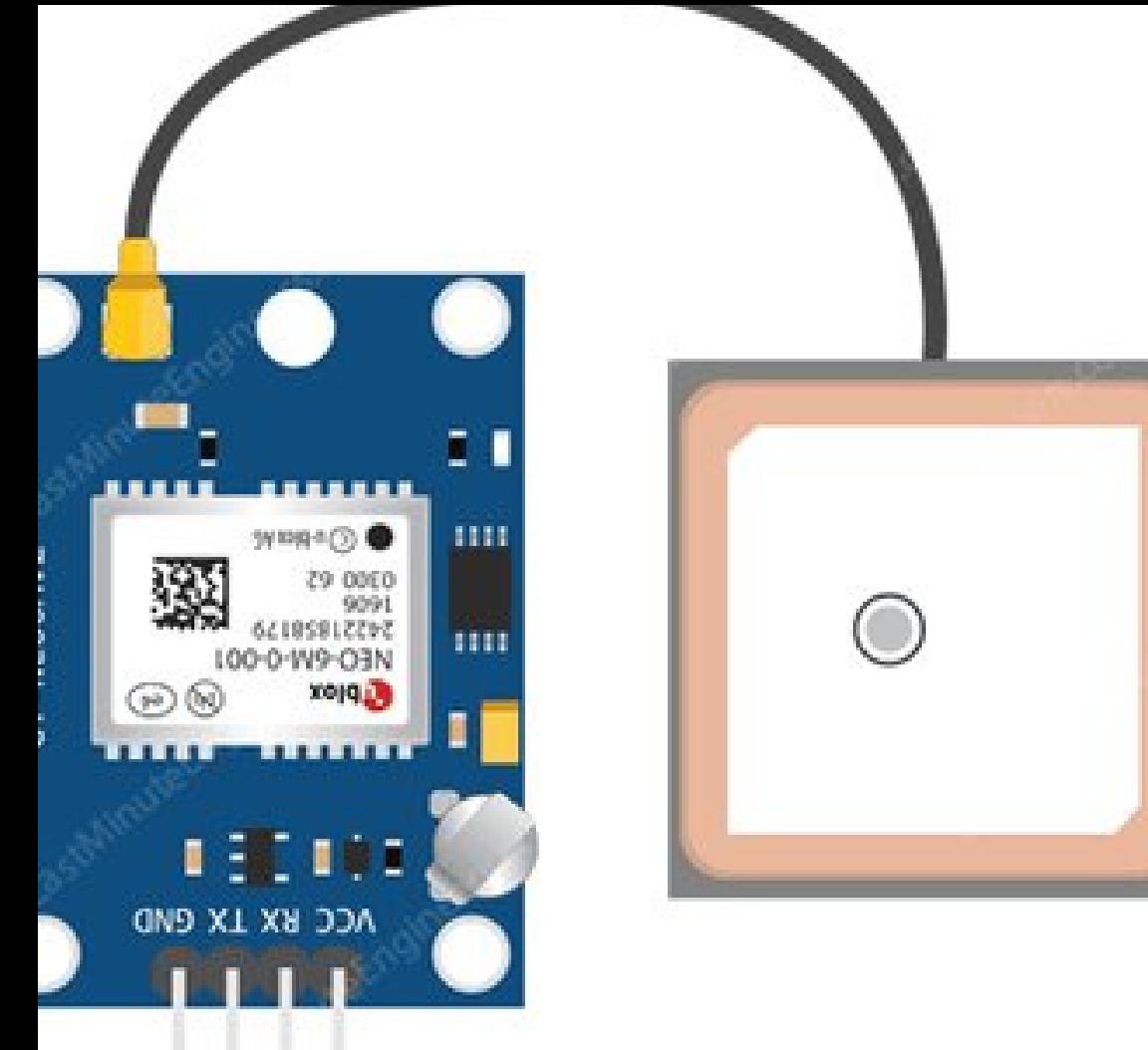
3.7v  
1200mAh  
battery



# Sim 800l Gsm module

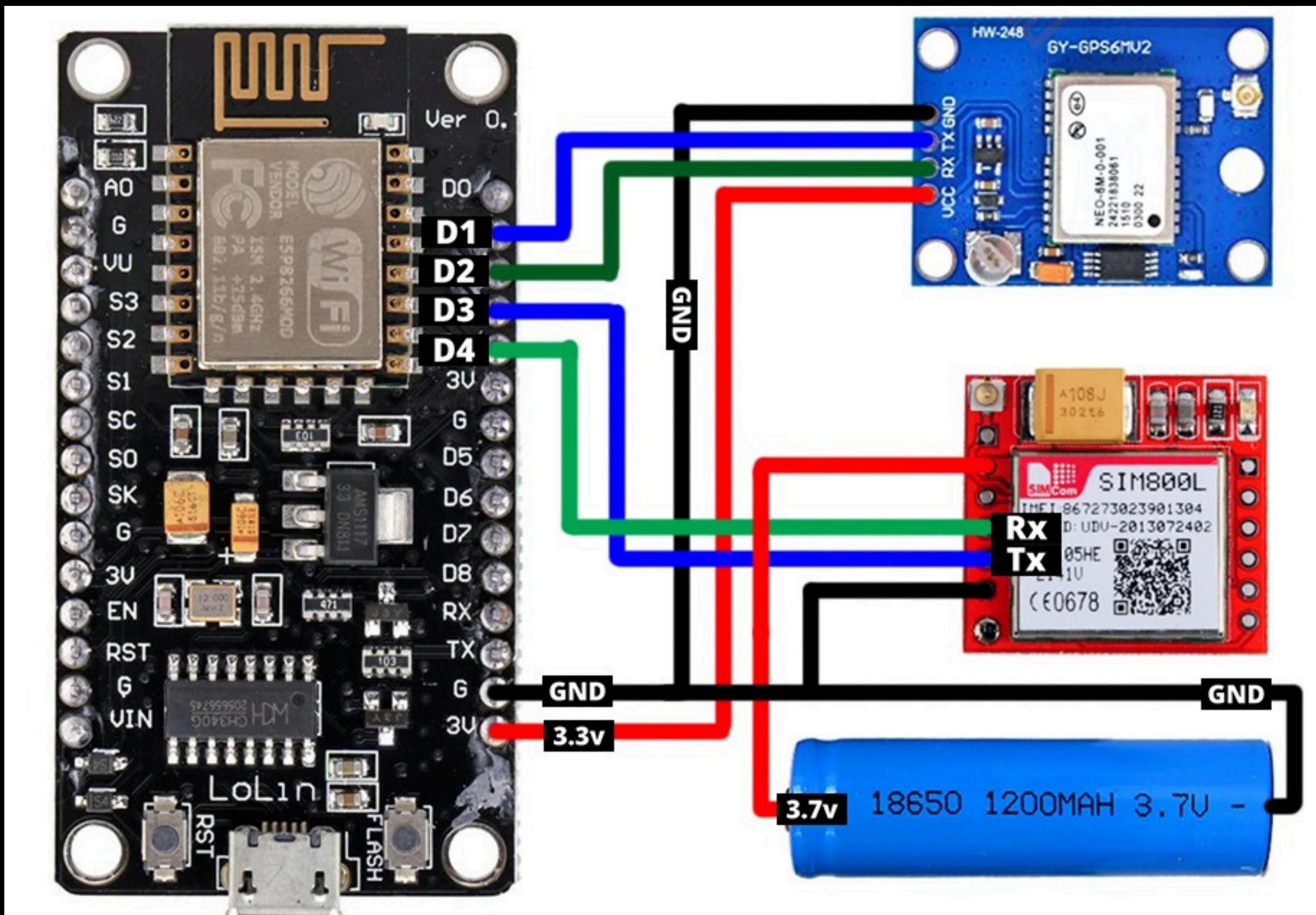


# Node mcu 8266

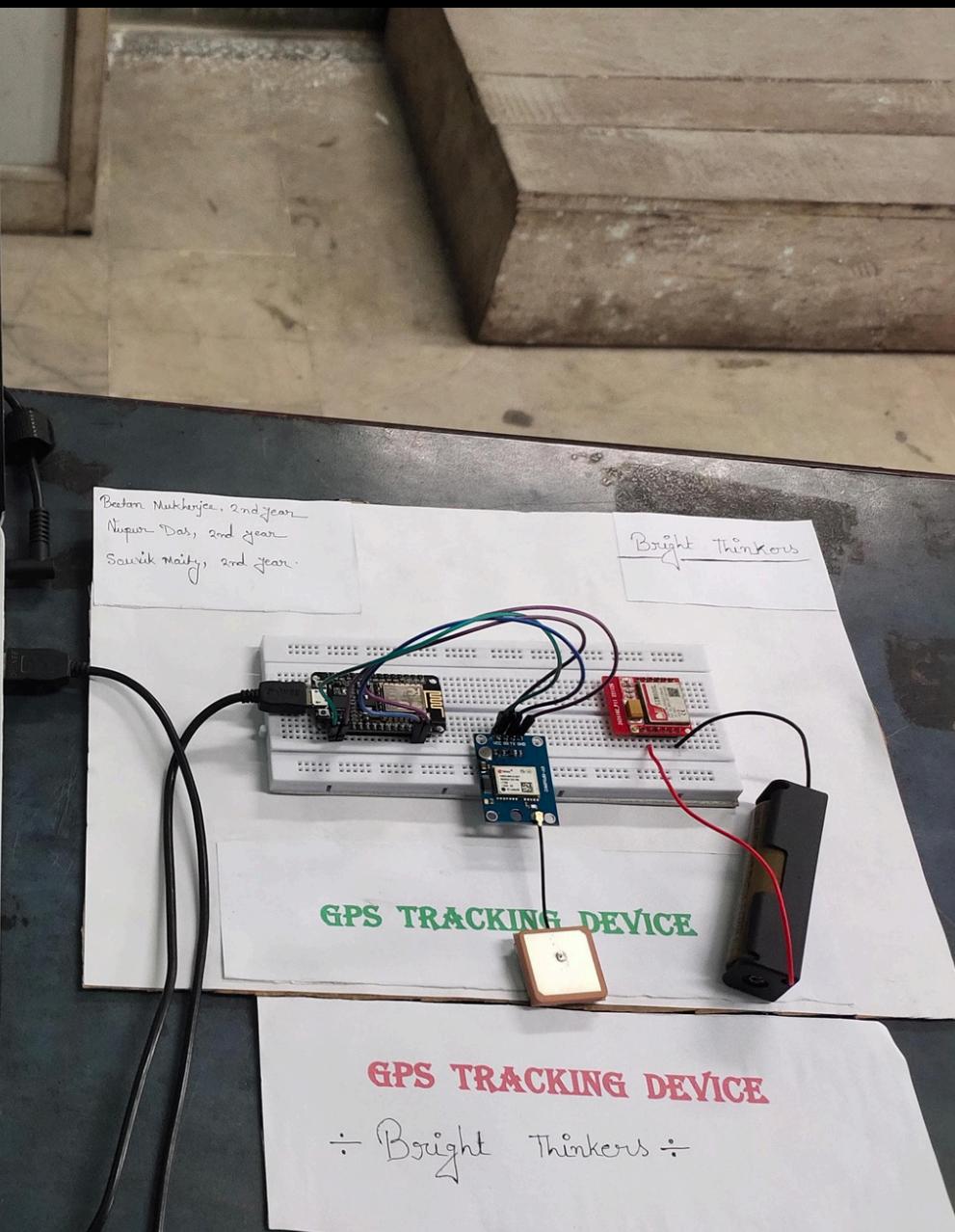
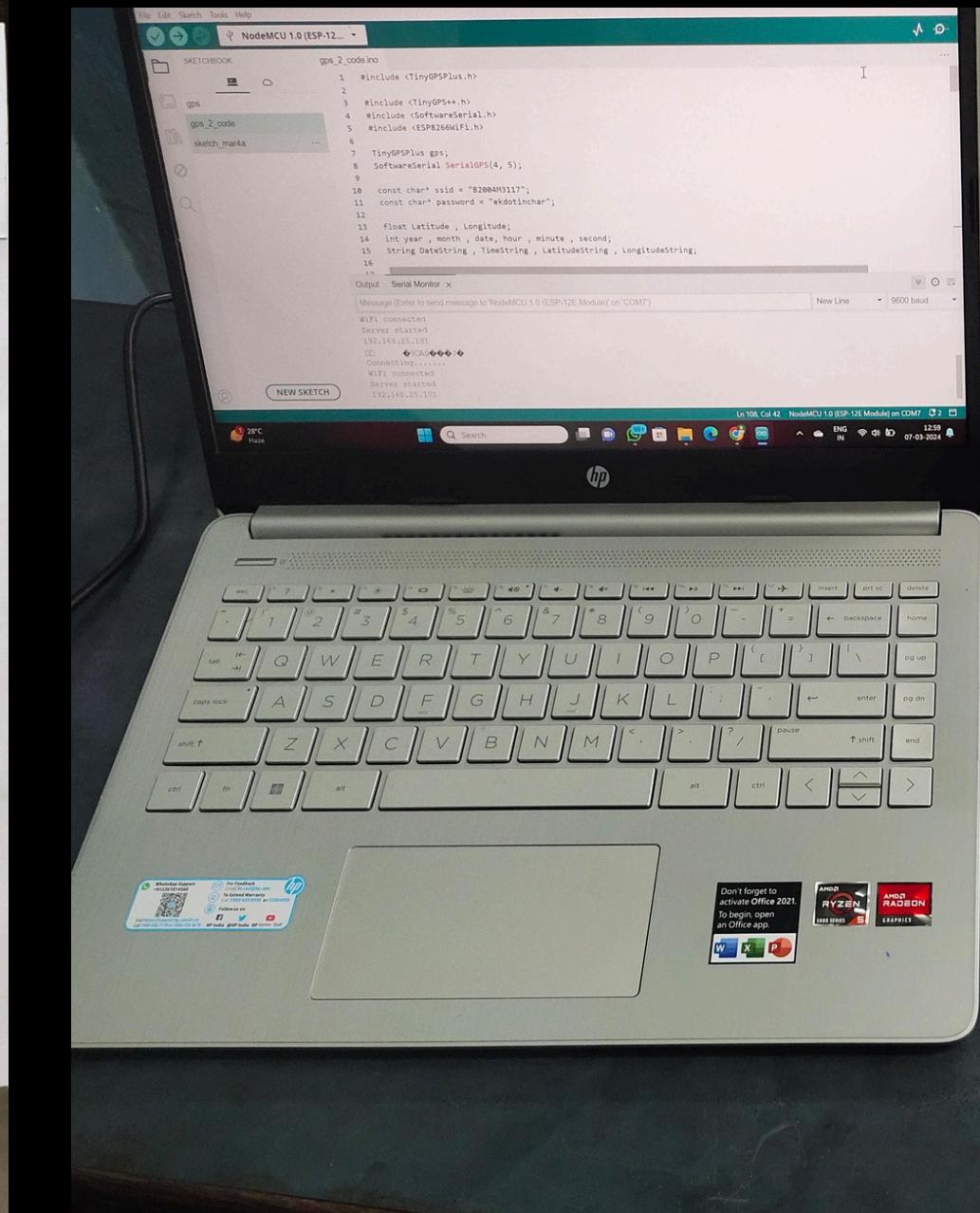
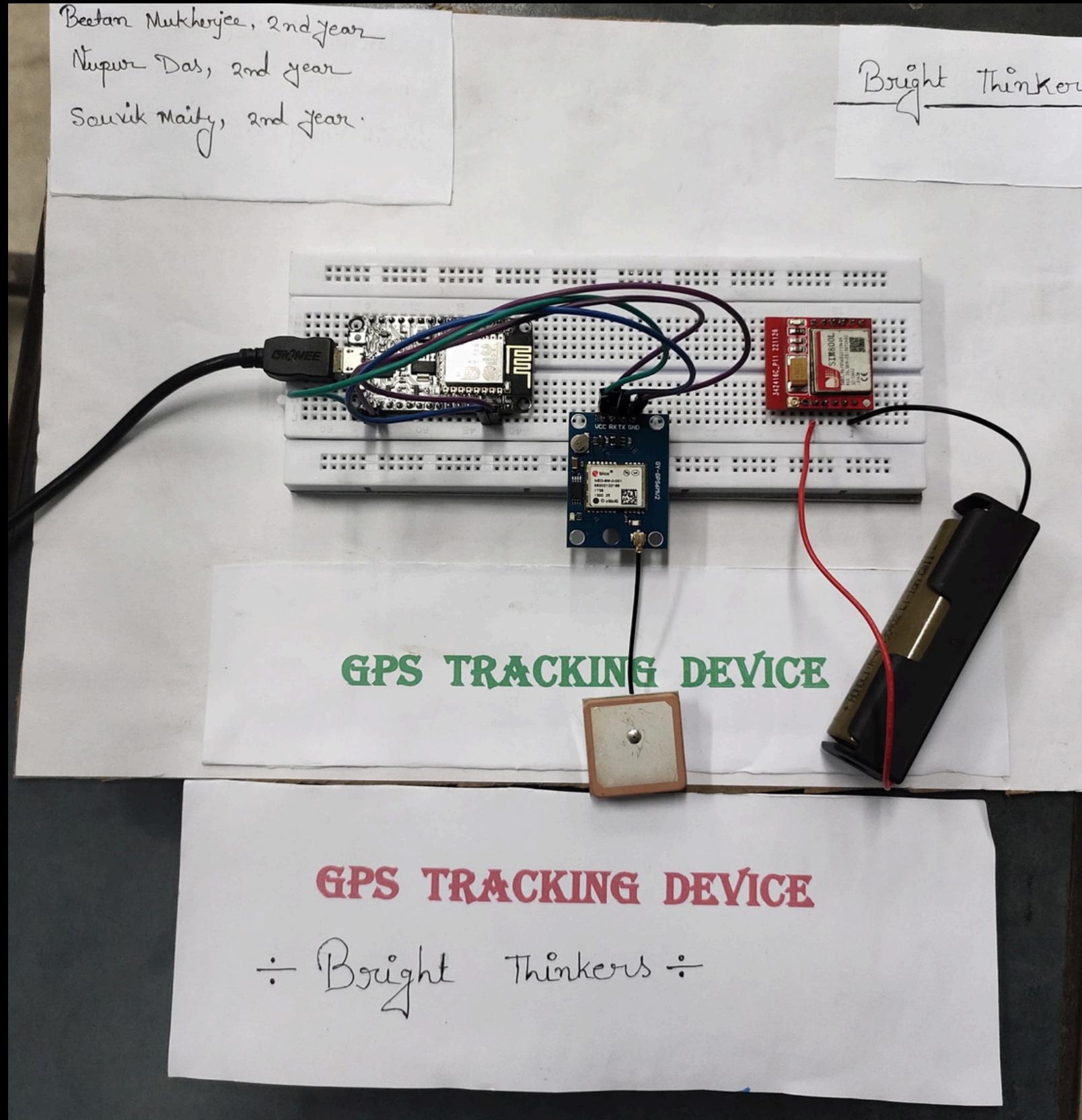


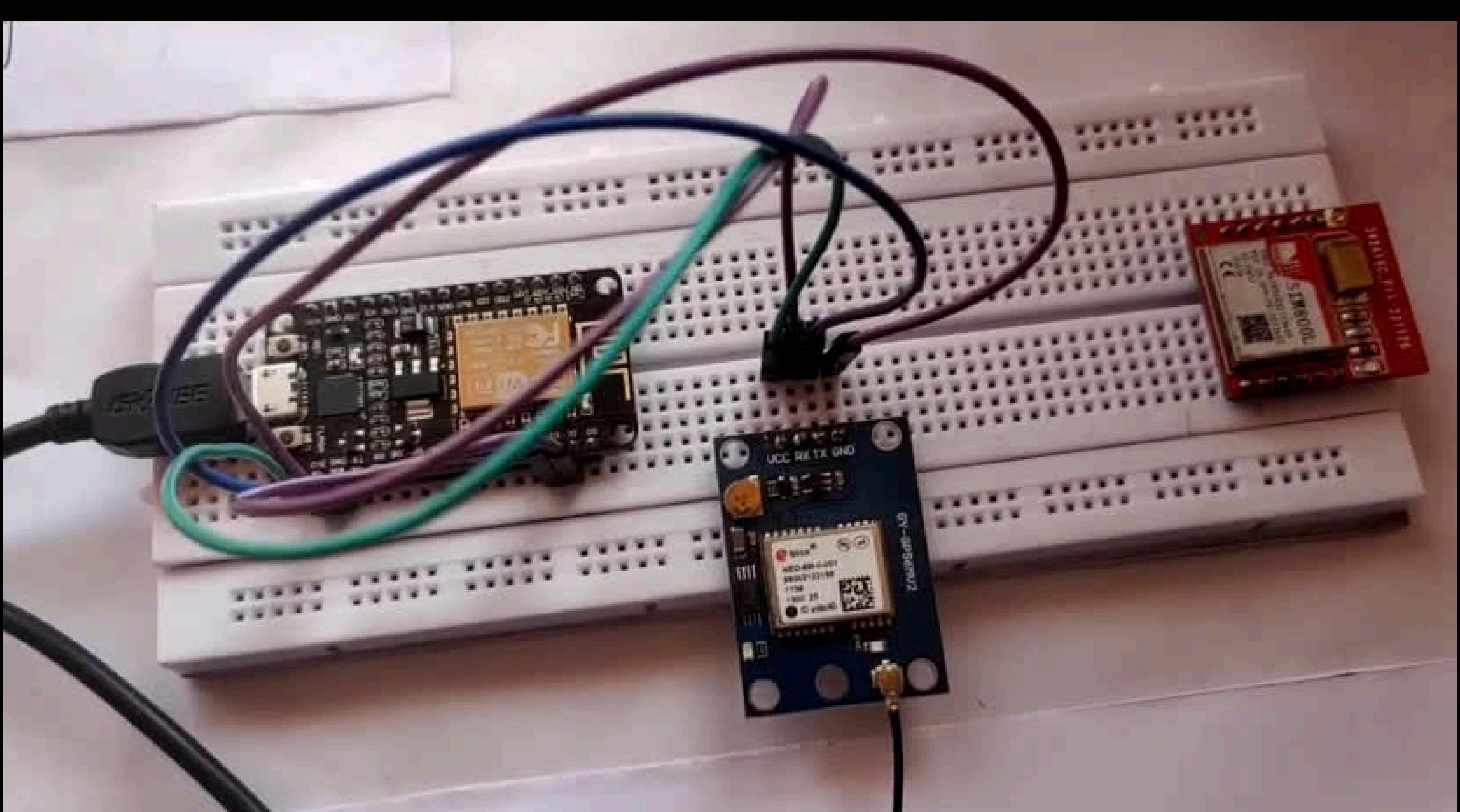
# Neo6m gps module

# Circuit Diagram



# Working Progress





# advantages of GPS tracker

GPS trackers are used for a variety of purposes, both personal and professional. Here are some common uses:

1. **Vehicle Tracking** : GPS trackers are often used by fleet managers to monitor the location and movement of vehicles in real-time. This can help improve efficiency, optimize routes, and ensure drivers are following company policies.
2. **Asset Tracking** : Companies use GPS trackers to keep tabs on valuable assets such as equipment, containers, and packages. This can help prevent theft, track shipments, and manage inventory more effectively.
3. **Personal Safety** : GPS trackers can be used for personal safety, such as tracking the location of children, elderly family members, or individuals with special needs. These devices can provide peace of

**4. Outdoor Activities** : GPS trackers are popular among outdoor enthusiasts for activities like hiking, camping, and mountaineering. They can help navigate unfamiliar terrain, track routes, and provide location-based information.

**5 .Fitness Tracking** : Many fitness devices incorporate GPS tracking to monitor activities such as running, cycling, and swimming. This data can be used to analyze performance, set goals, and track progress over time.

**6 . Wildlife Monitoring** : GPS trackers are used by researchers to study the movements and behavior of wildlife. This information can help in conservation efforts, habitat management, and understanding migration patterns.

**7 .Pet Tracking** : GPS trackers can be attached to pet collars to monitor the location of pets, ensuring they don't wander too far from home. This can be particularly useful for pet owners with outdoor cats or dogs prone to escaping.

**8 .Security** : GPS trackers can be used to enhance security by monitoring the location of valuable items or individuals. This can help prevent theft or track down stolen property.

Overall, GPS trackers offer a versatile and reliable way to monitor the location and movement of people, vehicles, and assets, providing valuable insights for both personal and professional use.

**9 . Women safety** : Women can carry GPS trackers discreetly, either as standalone devices or integrated into wearable accessories like bracelets or pendants. In case of threats or emergencies, they can quickly alert their trusted contacts or authorities about their location. GPS trackers can be particularly useful for women traveling alone, especially in unfamiliar areas or during late hours. By having a GPS tracker with them, they can share their real-time location with friends or family members, providing reassurance and enabling swift action if needed.

**10 . Emergency Response :** In situations where women feel threatened or unsafe, they can activate panic buttons on GPS trackers to send distress signals along with their precise location to designated contacts or emergency services. This can help expedite response times and ensure timely assistance.

# Conclusion

The GPS tracker project has been a significant endeavor, aimed at developing a reliable and efficient system for tracking locations accurately. Through meticulous planning, diligent implementation, and iterative improvements, the project has achieved its objectives effectively. Throughout the development process, the GPS tracker demonstrated commendable functionality and performance. It successfully tracked the desired parameters with a high degree of accuracy, providing real-time data that met the project's requirements. Users who tested the tracker provided positive feedback, particularly praising its reliability and responsiveness in various scenarios. However, the project was not without its challenges. Technical issues, logistical hurdles, and unexpected obstacles emerged along the way, requiring proactive problem-solving and adaptability from the team.

These challenges were addressed through collaborative efforts, resulting in practical solutions and valuable lessons learned.

Looking ahead, there are opportunities for further enhancements and refinements to the GPS tracker. Future iterations could incorporate additional features, optimize existing functionalities, and explore new applications to maximize its utility and impact. By leveraging the insights gained from this project, future developments can build upon its foundation to meet evolving needs and requirements.

In conclusion, the GPS tracker project has been a resounding success, showcasing the capabilities of modern technology to track locations effectively. Its reliability, accuracy, and versatility make it a valuable tool with numerous potential applications. As we reflect on the journey of this project, we recognize the dedication of the team, the support of stakeholders, and the contributions of all involved in bringing this vision to fruition.

**Thank you**