**Hardware Implementation of GPS Tracking System Using SIM808 module**

**Instructions for the project :**

1. Connect Ac adaptor with a power source.
2. Press the power button placed on the module for 3 seconds.
3. Then release the button when the power led is turned on.
4. Wait until **ready message**[[1]](#footnote-1) is sent to the **admin number** [[2]](#footnote-2) selected in program .
5. Now the project is ready to use and waiting for new messages or calls .
6. To communicate with the project, you can either send SMS message or dial the **GSM mobile number.[[3]](#footnote-3)**
7. To get GPS data you can either call the GSM Mobile Number or Send The **Password Keyword**[[4]](#footnote-4) and **GPS Data Flag**[[5]](#footnote-5) in SMS message To GSM Mobile Number.
8. If you call The GSM Mobile Number it waits for 2 seconds and then hangs up the call. Then the module send SMS message with GPS data to this mobile number.
9. Also, you can perform any AT commands like **Power On GPS** [[6]](#footnote-6), **Power OFF GPS** [[7]](#footnote-7)or **Check GPS Status** [[8]](#footnote-8) with the same way as previous instruction.
10. You can also Get GPS data and perform an AT Command in the same Message.
11. Finally , There is an **emergency message**[[9]](#footnote-9) which is not required to send password flag with it . When the module receives an emergency message , it calls the admin number .

1. **SIM808 is ready to use :)** [↑](#footnote-ref-1)
2. **01270989676** [↑](#footnote-ref-2)
3. **01500377147** [↑](#footnote-ref-3)
4. **weeka** [↑](#footnote-ref-4)
5. **GET\_GPS** [↑](#footnote-ref-5)
6. **AT+CGPSPWR=1** [↑](#footnote-ref-6)
7. **AT+CGPSPWR=0** [↑](#footnote-ref-7)
8. **AT+CGPSSTATUS?** [↑](#footnote-ref-8)
9. **help** [↑](#footnote-ref-9)