

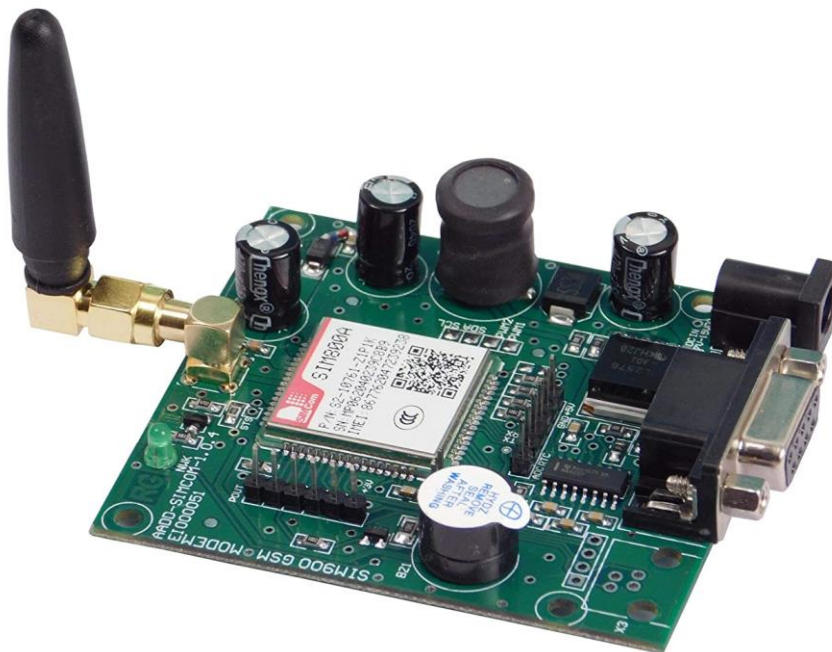
Project Development Phase

Delivery of Sprint 3

Date	18 November 2022
Team ID	PNT2022TMID49797
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

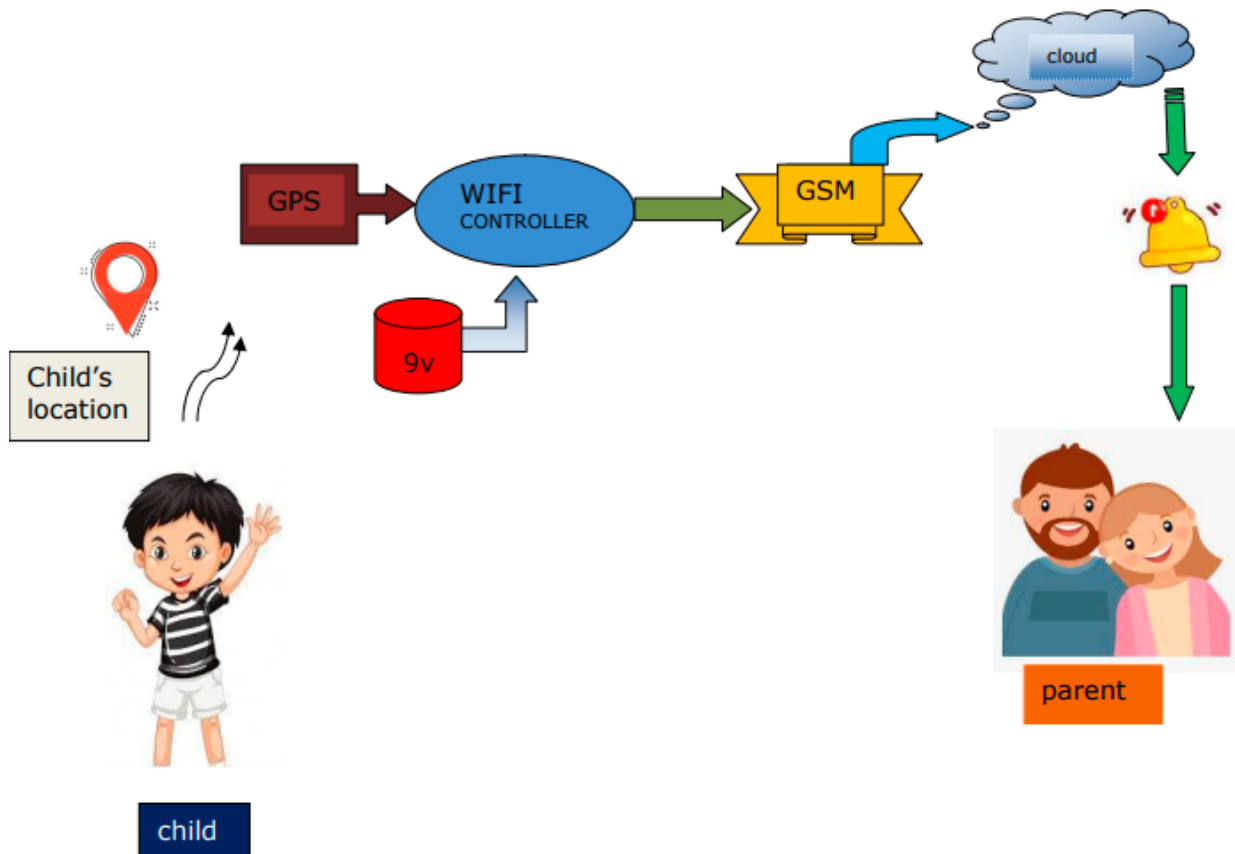
GSM MODULE

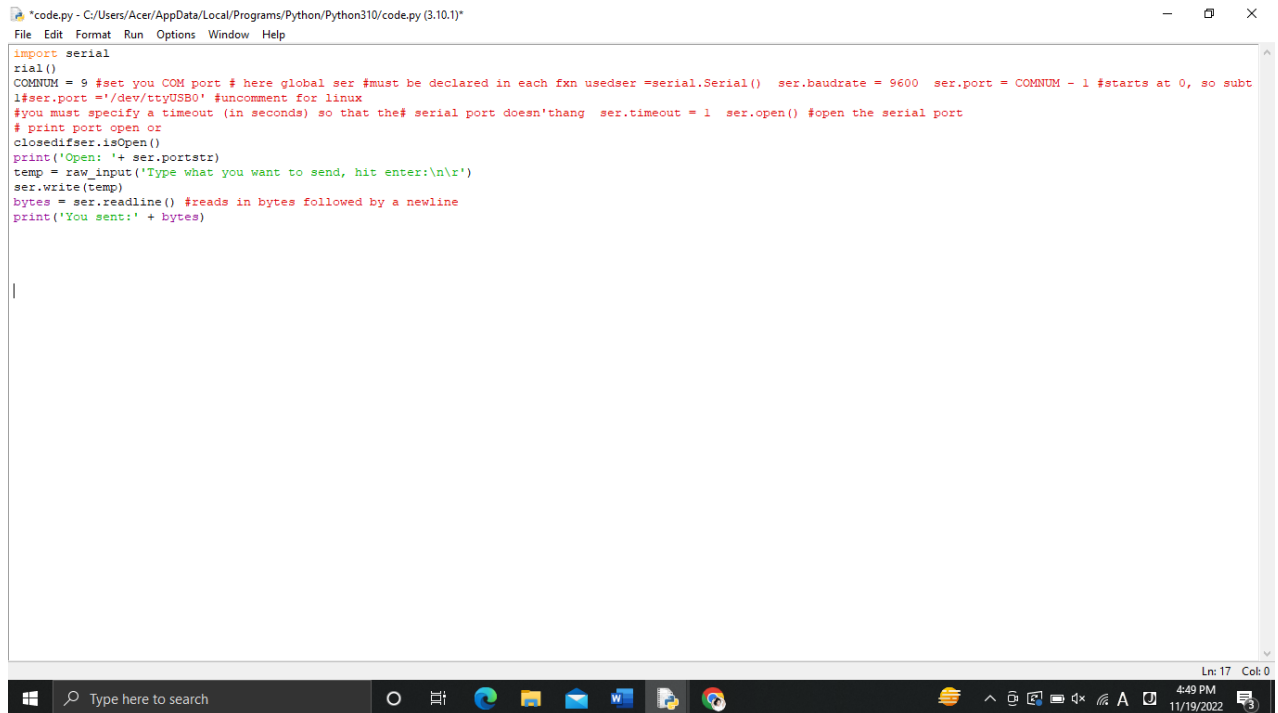
The module works to add both GSM features and GPRS features. The advantages of these modules are the VCC and TTL. The serial level that have 5V voltage level. Module to accomplish almost anything a normal cell phone can SMS text messages make or receive phone calls, connecting to internet through GPRS, TCP/IP, and more. To top it off, the module supports quadband GSM/GPRS network.



Notification module

- The notification is responsible for sending notifications to the computing devices either at home or outside.
- The computing device can be wired or wireless and may belong to either the child, the governess, doctor or the mother of the child depending upon the needed application.





The screenshot shows a Windows desktop environment. At the top, a code editor window titled "code.py - C:/Users/Acer/AppData/Local/Programs/Python/Python310/code.py (3.10.1)" is open. The code in the editor is a Python script for serial communication. Below the code editor, the Windows taskbar is visible, featuring a search bar and several application icons. The system tray on the right shows the time as 4:49 PM on 11/19/2022.

```
import serial
COMNUM = 9 #set you COM port # here global ser #must be declared in each fxn used
ser = serial.Serial() ser.baudrate = 9600 ser.port = COMNUM - 1 #starts at 0, so subtract 1
ser.port = '/dev/ttyUSB0' #uncomment for linux
#you must specify a timeout (in seconds) so that the serial port doesn't hang ser.timeout = 1
ser.open() #open the serial port
# print port open or closed
if ser.isOpen():
    print('Open: ' + ser.portstr)
temp = raw_input('Type what you want to send, hit enter:\n\r')
ser.write(temp)
bytes = ser.readline() #reads in bytes followed by a newline
print('You sent:' + bytes)
```

1. High-level language software design has long stayed in use for surrounded systems growth.
2. Assembly programming still overwhelms, mostly for digital-signal processor based systems.
3. DSPs are frequency systems automatic in assembly language by computer operator who know the processor building inside out. The key incentive for this practice is performance, even with the disadvantages of assembly software design when linked to high level programming.