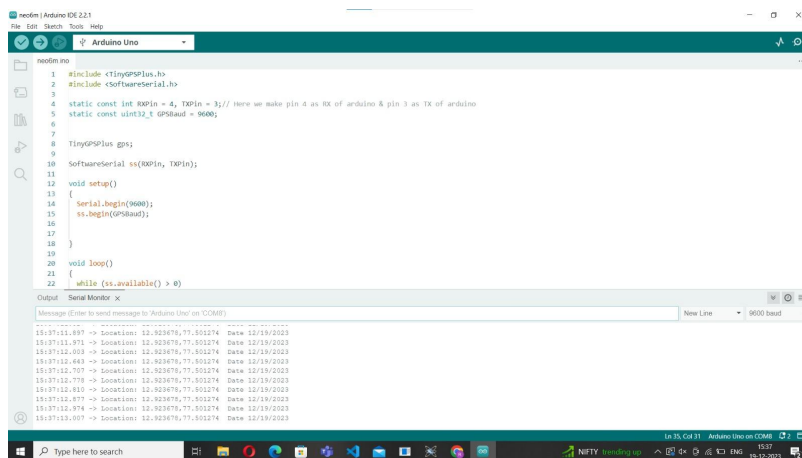


Documentation

1. Neo-6M works **successfully**. The code is available on **GitHub** repository
2. Wiring -
 - a. Arduino GND to Neo-6M GND
 - b. Arduino 5V to Neo-6M Vcc
 - c. Module Rx connected to Arduino Pin-3
 - d. Module Tx connected to Arduino Pin-4
3. Protocol => **UART**
4. Observations-
 - a. **Latency** period - 5 to 10 minutes
 - b. Check if the module's **Green LED** starts blinking. If the module starts blinking, then, the signal reception is very good and the module starts to generate **NMEA** sentences for location and time, which are **parsed** by the program
 - c. The readings-
 - i. Latitude
 - ii. Longitude
 - iii. Time
 - d. If the **module is not detected**, then, make sure that the connections are perfect. Check the wiring.



The screenshot shows the Arduino IDE interface. The code in the editor is as follows:

```
1 #include <TinyGPSPlus.h>
2 #include <SoftwareSerial.h>
3
4 static const int RXPin = 4, TXPin = 3; // here we make pin 4 as RX of arduino & pin 3 as TX of arduino
5 static const uint32_t GPSbaud = 9600;
6
7
8 TinyGPSPlus gps;
9
10 SoftwareSerial ss(RXPin, TXPin);
11
12 void setup()
13 {
14   Serial.begin(9600);
15   ss.begin(GPSbaud);
16
17 }
18
19 void loop()
20 {
21   while (ss.available() > 0)
```

The serial monitor shows the following output:

```
15:37:11.897 -> Location: 12.823678,77.501274 Date: 12/19/2023
15:37:11.871 -> Location: 12.823678,77.501274 Date: 12/19/2023
15:37:12.009 -> Location: 12.823678,77.501274 Date: 12/19/2023
15:37:12.468 -> Location: 12.823678,77.501274 Date: 12/19/2023
15:37:12.707 -> Location: 12.823678,77.501274 Date: 12/19/2023
15:37:12.778 -> Location: 12.823678,77.501274 Date: 12/19/2023
15:37:12.810 -> Location: 12.823678,77.501274 Date: 12/19/2023
15:37:12.877 -> Location: 12.823678,77.501274 Date: 12/19/2023
15:37:12.974 -> Location: 12.823678,77.501274 Date: 12/19/2023
15:37:13.007 -> Location: 12.823678,77.501274 Date: 12/19/2023
```

