#include <TinyGPS++.h>

#include <SoftwareSerial.h>

TinyGPSPlus gps;

SoftwareSerial gpsSerial(16, 17);

// GPS and Time Variables

double lat, lng, alt;

String date, tim;

int ch = 0;

int cm = 0;

int chs, cms;

bool trigger\_set = false;

void initialize\_gps() {

gpsSerial.begin(9600);

}

void getGps() {

boolean newData = false;

// Read GPS data for 1 second

unsigned long start = millis();

while (millis() - start < 1000) {

while (gpsSerial.available() > 0) {

if (gps.encode(gpsSerial.read())) {

newData = true;

break;

}

}

if (newData) break;

}

// Process new GPS data

if (newData) {

lat = gps.location.lat();

lng = gps.location.lng();

// date = String(gps.date.month()) + "/" + String(gps.date.day()) + "/" + String(gps.date.year());

chs = gps.time.hour() + 1 ; // No need to add 1 unless it's required for specific reasons

cms = gps.time.minute() ;

tim = String(chs) + ":" + String(cms);

} else {

lat = 0;

lng = 0;

}

}