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tell me the connection of each port and each part #include <Wire.h>
#include <MPU6050.h>
#include <AltSoftSerial.h>
#include <TinyGPS++.h>
#include <SoftwareSerial.h>
#include <math.h> // Required for trigonometric functions
const String EMERGENCY_PHONE = "+917488090721";
#define SIM RX 2
#define SIM TX 3
#define GPS RX 8
#define GPS TX 9
#define BUZZER 5
SoftwareSerial sim800(SIM_RX, SIM_TX);
AltSoftSerial gpsSerial;
TinyGPSPlus gps;
MPU6050 mpu;
String latitude, longitude;
bool impactDetected = false;
int16 tax, ay, az;
int threshold = 800;
float roll, pitch;
float initialRoll = 0, initialPitch = 0;
bool baselineSet = false;
float tiltThreshold = 20.0;
unsigned long lastImpactTime = 0;
unsigned long alertDelay = 30000;
unsigned long lastCheckTime = 0;
unsigned long checkInterval = 100;
unsigned long lastTiltTime = 0;
unsigned long resetTiltDelay = 20000; // 20s cooldown before resetting tilt baseline
void setup() {
 Serial.begin(9600);
 sim800.begin(9600);
 gpsSerial.begin(9600);
 pinMode(BUZZER, OUTPUT);
```

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Wire.begin();
 mpu.initialize();
 if (!mpu.testConnection()) {
  Serial.println("MPU6050 connection failed!");
  while (1);
 }
 Serial.println("MPU6050 initialized");
 mpu.setSleepEnabled(false);
 sim800.println("AT");
 delay(1000);
 sim800.println("ATE1");
 delay(1000);
 sim800.println("AT+CPIN?");
 delay(1000);
 sim800.println("AT+CMGF=1");
 delay(1000);
 sim800.println("AT+CNMI=1,1,0,0,0");
 delay(1000);
}
void loop() {
 if (millis() - lastCheckTime > checkInterval) {
  checkImpact();
  checkTilt();
  lastCheckTime = millis();
 }
 if (impactDetected) {
  Serial.println("A Emergency Detected! Sending Alert...");
  getGps();
  digitalWrite(BUZZER, HIGH);
  delay(5000);
  digitalWrite(BUZZER, LOW);
  sendAlert();
  makeCall();
  impactDetected = false;
  lastTiltTime = millis(); // Store time of last tilt-based alert
 }
```

```
// Reset tilt baseline after cooldown to allow future tilt detection
 if (baselineSet && (millis() - lastTiltTime > resetTiltDelay)) {
  resetBaseline();
 }
}
void checkImpact() {
 mpu.getAcceleration(&ax, &ay, &az);
 int diffX = abs(ax);
 int diffY = abs(ay);
 int diffZ = abs(az);
 if ((diffX > threshold || diffY > threshold || diffZ > threshold) &&
    (millis() - lastImpactTime > alertDelay)) {
  Serial.println(" ≠ Impact Detected!");
  impactDetected = true;
  lastImpactTime = millis();
}
void checkTilt() {
 mpu.getAcceleration(&ax, &ay, &az);
 roll = atan2(ay, az) * 180.0 / M_PI;
 pitch = atan2(-ax, sqrt(ay * ay + az * az)) * 180.0 / M PI;
 if (!baselineSet) {
  initialRoll = roll;
  initialPitch = pitch;
  baselineSet = true;
 }
 float rollDeviation = abs(roll - initialRoll);
 float pitchDeviation = abs(pitch - initialPitch);
 Serial.print("Roll: "); Serial.print(roll);
 Serial.print(" | Pitch: "); Serial.print(pitch);
 Serial.print(" | ΔRoll: "); Serial.print(rollDeviation);
 Serial.print(" | ΔPitch: "); Serial.println(pitchDeviation);
 if (rollDeviation > tiltThreshold || pitchDeviation > tiltThreshold) {
  Serial.println("A Tilt Detected (Deviation Over 20°)! Activating System...");
  impactDetected = true;
```

```
}
}
// Reset the initial baseline after a delay
void resetBaseline() {
 Serial.println(" Resetting baseline orientation...");
 initialRoll = roll;
 initialPitch = pitch;
 baselineSet = true;
 lastTiltTime = millis();
}
void getGps() {
 boolean newData = false;
 for (unsigned long start = millis(); millis() - start < 2000;) {
  while (gpsSerial.available()) {
    if (gps.encode(gpsSerial.read())) {
     newData = true;
     break;
   }
  }
 }
 if (newData) {
  latitude = String(gps.location.lat(), 6);
  longitude = String(gps.location.lng(), 6);
 } else {
  Serial.println("No GPS data available!");
  latitude = "0.0";
  longitude = "0.0";
 }
 Serial.print("Latitude: ");
 Serial.println(latitude);
 Serial.print("Longitude: ");
 Serial.println(longitude);
}
void sendAlert() {
 String sms_data = " Emergency Alert!!\r";
 sms_data += "Location: http://maps.google.com/maps?q=loc:";
 sms_data += latitude + "," + longitude;
 sendSms(sms_data);
```

```
}
void makeCall() {
 Serial.println(" Calling emergency number...");
 sim800.println("ATD" + EMERGENCY_PHONE + ";");
 delay(20000);
 sim800.println("ATH");
 delay(1000);
}
void sendSms(String text) {
 sim800.print("AT+CMGF=1\r");
 delay(1000);
 sim800.print("AT+CMGS=\"" + EMERGENCY_PHONE + "\"\r");
 delay(1000);
 sim800.print(text);
 delay(100);
 sim800.write(0x1A);
 delay(1000);
 Serial.println(" SMS Sent Successfully.");
}
```