```cpp
#include <SoftwareSerial.h>

#include <TinyGPS.h>

long lat,lon; // create variable for latitude and longitude object

double dlat=0,dlon=0;

SoftwareSerial gpsSerial(4, 3); // create gps sensor connection

//SoftwareSerial mySerial(9, 10);

TinyGPS gps; // create gps object

boolean ENABLE =1;

boolean DISABLE=0;

int vib  = 6;

int led = 13;

long sen;

int gpsdetectFlag=0;

void gpsLocation();

static void vibration();

static void gsm();

void setup(){
  Serial.begin(9600); // connect serial
  gpsSerial.begin(9600); // connect gps sensor
  //mySerial.begin(9600);
  delay(100);
  delay(5000);
  pinMode(vib, INPUT);
  pinMode(led , OUTPUT); // not needed
}
void loop(){
 delay(100);
 vibration();
 //gpsLocation();
}
#if 1
```

```
static void gsm()
{
  Serial.println("AT+CMGF=1");   //Sets the GSM Module in Text Mode
  delay(2000);  // Delay of 1000 milli seconds or 1 second
  Serial.println("AT+CMGS=\"+919962881127\"\r"); // Replace x with mobile number
  delay(2000);
  dlat=(double)lat;
  dlon=(double)lon;
  dlat=dlat/1000000;
  dlon=dlon/1000000;
  Serial.println("ACCIDENT!!!!!!!!!   LOCATION-----");// The SMS text you want to send
  delay(2000);
  Serial.print("https://www.google.co.in/maps/@");
  delay(2000);
  Serial.print(dlat);
  delay(2000);
    Serial.print(",");
      delay(2000);
    Serial.print(dlon);
      delay(2000);
    Serial.println(",15z");
      delay(2000);
  Serial.println((char)26);// ASCII code of CTRL+Z
  delay(3000);
}
#endif
void gpsLocation()
{
    gpsdetectFlag=DISABLE;
  while(gpsdetectFlag!=ENABLE)
  {
```

```
    //Serial.println("gps data");
  while(gpsSerial.available()){ // check for gps data

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

    gps.get_position(&lat,&lon); // get latitude and longitude

    gpsdetectFlag=ENABLE;
gsm();

  }

 }

}

}
static void vibration()

{

  sen=pulseIn(vib, HIGH);

  if ( sen > 2500)

  {

   gpsLocation();

   digitalWrite(led, HIGH );

   delay (1000);

   digitalWrite(led , 0);

  }

  delay(100);

}
```