**TE MINI PROJECT**

***GROUP 39***

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“**WOMEN SAFETY ALERT DEVICE USING ARDUINO**”

**Source Code:**

#include <SoftwareSerial.h>

#include <TinyGPS.h>

int state = 0;

const int pin = 9;

float gpslat, gpslon;

TinyGPS gps;

SoftwareSerial sgps(4, 5);

SoftwareSerial sgsm(2, 3);

void setup()

{

sgsm.begin(9600);

sgps.begin(9600);

}

void loop()

{

sgps.listen();

while (sgps.available())

{

int c = sgps.read();

if (gps.encode(c))

{

gps.f\_get\_position(&gpslat, &gpslon);

}

}

if (digitalRead(pin) == HIGH && state == 0) {

sgsm.listen();

sgsm.print("\r");

delay(1000);

sgsm.print("AT+CMGF=1\r");

delay(1000);

/\*Replace XXXXXXXXXX to 10 digit mobile number &

ZZ to 2 digit country code\*/

sgsm.print("AT+CMGS=\"+ZZXXXXXXXXXX\"\r");

delay(1000);

//The text of the message to be sent.

sgsm.print("Latitude :");

sgsm.println(gpslat, 6);

sgsm.print("Longitude:");

sgsm.println(gpslon, 6);

sgsm.print("https://www.google.com/maps/?q=");

sgsm.print(gpslat, 6);

sgsm.print(",");

sgsm.print(gpslon, 6);

delay(1000);

sgsm.write(0x1A);

delay(1000);

state = 1;

}

if (digitalRead(pin) == LOW) {

state = 0;

}

delay(100);

}