#include <SoftwareSerial.h>

#include <string.h>

SoftwareSerial gprsSerial(2,3);

int lenth,lenth1,i=0,temp;

String GPSValue;

String IncomingData;

char str[100];

char name1[50];

char check[10] = "karthik";

#define sensor 7

#define green A0

#define red A1

int k =0 ;

void serialEvent()

{

while (gprsSerial.available())

{

char inChar = (char)gprsSerial.read();

str[lenth]=inChar;

lenth++;

if (inChar == '\n')

{

temp=1;

}

}

}

//////////////////////////////////////////////////////////////////////////////

void SendSMS1(String Data){

gprsSerial.print("AT+CMGF=1\r"); //Because we want to send the SMS in text mode

delay(1000);

gprsSerial.print("AT+CMGS=\"+919100120037\"\r"); //Start accepting the text for the message

//to be sent to the number specified.

//Replace this number with the target mobile number.

delay(1000);

gprsSerial.print(Data);

gprsSerial.print("\r"); //The text for the message

delay(1000);

gprsSerial.write(0x1A); //Equivalent to sending Ctrl+Z

}

void SendSMS2(String Data){

gprsSerial.print("AT+CMGF=1\r"); //Because we want to send the SMS in text mode

delay(1000);

gprsSerial.print("AT+CMGS=\"+919492414566\"\r"); //Start accepting the text for the message

//to be sent to the number specified.

//Replace this number with the target mobile number.

delay(1000);

gprsSerial.print(Data);

gprsSerial.print("\r"); //The text for the message

delay(1000);

gprsSerial.write(0x1A); //Equivalent to sending Ctrl+Z

}

void setup() {

// initialize serial communication:

Serial.begin(9600);

Serial.println(" GARBAGE BIN LOCATION RAMNAGAR ROAD NO : 3 IS FULL");

pinMode(sensor,INPUT);

pinMode(green,OUTPUT);

pinMode(red,OUTPUT);

digitalWrite(red,HIGH);

digitalWrite(green,HIGH);

gprsSerial.begin(9600);

Serial.begin(9600);

delay(100);

gprsSerial.println("ATE0");

delay(1000);

gprsSerial.println("AT+CNMI=2,2,0,0,0");

delay(1000);

SendSMS1("GARBAGE MANAGEMENT SYSTEM");

digitalWrite(red,HIGH);

digitalWrite(green,LOW);

}

/////////////////////////////////////////////////////////////////////

void loop() {

if(digitalRead(sensor)== HIGH && k == 0){

k = 1;

digitalWrite(red,LOW);

digitalWrite(green,HIGH);

Serial.println("GARBAGE IS FULL");

Serial.println("GARBAGE IS FULL");

SendSMS1("GARBAGE BIN LOCATION RAMNAGAR ROAD NO : 3 IS FULL");

delay(5000);

SendSMS2("GARBAGE BIN LOCATION RAMNAGAR ROAD NO : 3 IS FULL");

}

else if(digitalRead(sensor)== LOW && k == 1){

k = 0;

digitalWrite(red,HIGH);

digitalWrite(green,LOW);

Serial.println("GARBAGE IS CLEANED");

SendSMS1("GARBAGE BIN LOCATION RAMNAGAR ROAD NO : 3 IS CLEANED");

delay(3000);

SendSMS2("GARBAGE BIN LOCATION RAMNAGAR ROAD NO : 3 IS CLEANED");

}

}