#include <SoftwareSerial.h> // To enable serial communication

SoftwareSerial gsm(2,3); // GSM MODEM Tx 2 and Rx to 3

#include <string.h> // To Enable strings

#define fire 4 // This is the pin where fire sensor D0 is connected.

#define smoke 5 // This is the pin where smoke sensor pin is connected.

void SendSMS(String Data) //send a message//

{

gsm.print("AT+CMGF=1\r"); //Because we want to send the SMS which is a text

delay(1000);

gsm.print("AT+CMGS=\"+918019412012\"\r"); //Used to send SMS to give number

//The number mentioned above must be replaced by the number which should get alert.

delay(1000);

gsm.print(Data);

gsm.print("\r"); //We need to specify the text message here.

delay(1000);

gsm.write(0x1A); //To stop the code from sending the message again.

}

void setup()

{

pinMode(13,OUTPUT);

pinMode(fire,INPUT);

pinMode(smoke,INPUT);

pinMode(pir,INPUT);

gsm.begin(9600); /// communication speed.

Serial.begin(9600); // communication speed

}

void loop()

{

digitalWrite(13,HIGH);

if(digitalRead(fire)==LOW)

{

String SMSData = "FIRE DETECTED, At this location http://maps.google.com/maps?saddr=16.6981182,77.9414296";

SendSMS(SMSData);

}

if(digitalRead(smoke)==LOW)

{

String SMSData = "SMOKE DETECTED, At this location http://maps.google.com/maps?saddr=16.6981182,77.9414296";

SendSMS(SMSData);

}

}