CODE IMPLEMENTATION  
#include <LiquidCrystal\_I2C.h> LiquidCrystal\_I2C lcd(0x27,16,2); #include <SoftwareSerial.h> SoftwareSerial mySerial(9, 10);

int buzzer = 13; int GASA0 = A0;

int gasvalue;

void setup() {

lcd.init(); // initialize the lcd

lcd.init(); lcd.backlight(); mySerial.begin(9600); Serial.begin(9600);

pinMode(buzzer, OUTPUT); lcd.setCursor(1,0); lcd.print("Hi there!"); lcd.setCursor(1,1);

lcd.print("Mini Project"); delay(5000);

}

void loop() {

int analogSensor = analogRead(GASA0); int gasvalue=(analogSensor-50)/10;

lcd.setCursor(0,0); lcd.print("GAS Level:"); lcd.setCursor(10,0); lcd.print(gasvalue); lcd.setCursor(12,0); lcd.print("%");

// Checks if it has reached the threshold value if (gasvalue >= 10)

{

SendTextMessage(); lcd.setCursor(0,1);

lcd.print("DANGER"); tone(buzzer, 1000, 200);

}

else

{

lcd.setCursor(0,1); lcd.print("NORMAL");

noTone(buzzer);

}

delay(500);

lcd.clear();

}

void SendTextMessage()

{

mySerial.println("AT+CMGF=1"); //To send SMS in Text Mode delay(1000);

mySerial.println("AT+CMGS=\"+917989391741\"\r"); // change to the phone number you using delay(1000);

mySerial.println("Gas Leaking! Please Turn off the Gas");//the content of the message delay(200);

mySerial.println((char)26);//the stopping character delay(1000);

}