#include <LiquidCrystal.h>

LiquidCrystal lcd(13,12,11,10,9,8);

#include <SoftwareSerial.h>

SoftwareSerial mySerial(2,3);

char res[130];

int led = 7;

//int led2 = 6;

void setup() {

char ret;

// pinMode(led2, OUTPUT);

//digitalWrite(led2,HIGH);

pinMode(led, OUTPUT);

digitalWrite(led,HIGH);

Serial.begin(9600);

mySerial.begin(9600);

lcd.begin(16,2);

lcd.clear();lcd.setCursor(0, 0);lcd.print("WELCOME");

delay(5000);

Serial.println("AT"); delay(1000);

Serial.println("ATE0"); delay(1000);

Serial.println("AT+CMGF=1"); delay(1000);

Serial.println("AT+CNMI=1,2,0,0"); delay(1000);

lcd.setCursor(0, 0);lcd.print("GSM INIT DONE");

// digitalWrite(led2,LOW);

delay(2000);

//digitalWrite(led2,HIGH);

lcd.setCursor(0, 0);lcd.print("SEND \*TIME");

}

char pass[5] = {0,0,0,0,0};

int tim=0,timsec=0;

void loop() {

while(!Serial.available());

if( Serial.read() == '\*')

{

while(!Serial.available());

pass[0] = Serial.read();

while(!Serial.available());

pass[1] = Serial.read();

while(!Serial.available());

pass[2] = Serial.read();

while(!Serial.available());

pass[3] = 0;

tim = atoi(pass);

lcd.setCursor(0, 0);lcd.print(tim);

timsec = tim \* 60;

delay(1000);

digitalWrite(led,LOW);

while(timsec)

{

lcd.clear();lcd.setCursor(0, 0);lcd.print(timsec);

timsec--;

//if(timsec%2)

//digitalWrite(led2,LOW);

// else

// digitalWrite(led2,HIGH);

delay(1000);

}

digitalWrite(led,HIGH);

lcd.setCursor(0, 0);lcd.print("SEND \*TIME");

}

}

#include<dht.h>

dht DHT;

#define DHT11\_PIN 3

float hum;

float temp;

int m;

char t;

String data;

char msg;

#include<SoftwareSerial.h>

SoftwareSerial mySerial(9,10);

char phone\_no[]="9959582342";

void setup() {

// put your setup code here, to run once:

mySerial.begin(9600);

Serial.begin(9600);

delay(500);

mySerial.println("AT+CMGF=1");

delay(100);

}

void loop() {

int chk = DHT.read11(DHT11\_PIN);

hum = DHT.humidity;

temp = DHT.temperature;

// put your main code here, to run repeatedly:

if(Serial.available()>0)

switch(Serial.read())

{

case 't':

SendTextMessage();

break;

case 'r':

ReceiveTextMessage();

//reading();

break;

}

if(mySerial.available())

Serial.write(mySerial.read());

/\*if (mySerial.available()>0)

{

msg=mySerial.read();

Serial.print(msg);

}

if(msg==7)

{

digitalWrite(8,HIGH);

delay(5000);

digitalWrite(8,LOW);

}

Serial.println(msg);

/\*m=0;

while(mySerial.available())

{

if(mySerial.read()=='#')

{

m++;

t=mySerial.read();

}

m++;

}

}\*/

//reading();

}

void SendTextMessage()

{

//mySerial.println("AT+CMGF=1");

//delay(100);

mySerial.print("AT+CMGS=\"");

mySerial.print(phone\_no);

mySerial.println("\"");

//mySerial.println("pratyusha");

//mySerial.println("temperature");

mySerial.println(temp);

//mySerial.println("humidity");

mySerial.println(hum);

mySerial.println((char)26);

delay(100);

mySerial.write(0x1A); // sends ctrl+z end of message

mySerial.write(0x0D); // Carriage Return in Hex

mySerial.write(0x0A); // Line feed in Hex

//The 0D0A pair of characters is the signal for the end of a line and beginning of another.

delay(5000);

}

void ReceiveTextMessage()

{

//mySerial.println("AT+CMGF=1");

//delay(100);

mySerial.println("AT+CNMI=2,2,0,0,0"); // AT Command to receive a live SMS

delay(8000);

digitalWrite(13,LOW);

delay(5000);

digitalWrite(13,HIGH);

//mySerial.println("AT+CMGL=\"ALL\"\r");

// delay(500);

// delay(500);

//mySerial.println("AT+CMGR=2");

//delay(1000);

}

/\*

void reading()

{

char temp1[50],inByte;

int inChar,ti;

int m=0;

for(m=0;m<45;m++)

{

temp1[m]=0;

}

do

{

while(!Serial.available());

}while(""!=Serial.read());

for(m=0;m<45;m++)

{

while(!Serial.available());

inByte=Serial.read();

temp1[m]=inByte;

}

for(m=0;m<43;m++)

{

Serial.print(temp1[m]);

}

// ti=temp1[42].toInt();

//digitalWrite(13,HIGH);

//delay(ti \* 1000);

//digitalWrite(13,LOW);

}\*/