#include<LiquidCrystal.h>

float sinVal; //variable declear

int toneVal; //variable declear

unsigned long tepTimer ; //vaial declear

const int rs = 12, en = 11, d4 = 5, d5 = 4, d6 = 3, d7 = 2;

LiquidCrystal lcd(rs, en, d4, d5, d6, d7); // Set the LCD addres

int pin = 0; //variable declear

int value; //variable declear

void setup() {

pinMode(8, OUTPUT); // sets the digital pin as output

lcd.begin(16,2); //Initializes the interface to the LCD screen

Serial.begin(9600); //show the output in monitor

}

void loop() {

int val; //variable declear

double data; //variable declear

val=analogRead(0); // read the input pin

data = (double) val \* (5/10.24); //convert the temperature from fahrenheit to celsius

value = analogRead(pin); // read the input pin

int volt = value\*5.0/1024.0;

double temp=volt\*1000/10;

if(data>35){

for(int x=0; x<180; x++){

sinVal = (sin(x\*(3.1412/180)));

toneVal = 2000+(int(sinVal\*1000));

tone(8, toneVal); //for alarm

delay(2); // time delay

}

} else {

noTone(8);

}

if(millis() - tepTimer > 50){

tepTimer = millis(); //show the time in millisecond

Serial.print("temperature: "); //show the output on serial monitor

Serial.print(data); //show the output on serial monitor

Serial.println("°C"); //show the output on serial monitor

lcd.setCursor(2,0);

lcd.print("Temperature:"); //show the output on serial monitor

lcd.setCursor(4,1);

lcd.print(data);

lcd.print(" C");

}

}