**Source code for my Arduino (source code for my graph is in other document)**

#define R0 10000.0

#define n 3950.0 //coefficient of thermistor

#define T0 298 //room temperature 25 celcius degree in kelvin

#define led1 13

#define led2 10

#define BuzzerPin 12

#define sensor A0

#define num 5

int i;

int tones1[] = {261,294,330,349,392};

int tones2[] = {1046,1175,1319,1397,1568};

void setup()

{

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

Serial.begin(9600);

pinMode(BuzzerPin,OUTPUT);

pinMode(led1, OUTPUT);

pinMode(led2, OUTPUT);

}

void loop()

{

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

int reading = analogRead(sensor);

float sensorV = (reading\*5.0)/1024.0; //changes the value of reading (0-1023) to the value of voltage(0-5)

float sensorR =((5.0\* R0)/ sensorV) - R0;

float kelvinT = 1.0 / ((1.0 / T0) + (1.0 /n)\* log(sensorR / R0)); //using Stein Hart equation to calculate temperature

float celsiusT = kelvinT-273.0; //changes kelvin to celcius

Serial.println(celsiusT);

delay(500);

if(celsiusT >=27.0 && celsiusT < 29.0){

digitalWrite(led2,HIGH);

for( i=0; i<num; i++){

tone(BuzzerPin, tones1[i]);

delay(1000);

}

}

else if(celsiusT >=29.0){

digitalWrite(led1,HIGH);

digitalWrite(led2,HIGH);

for( i=0; i<num; i++){

tone(BuzzerPin, tones2[i]);

delay(1000);

}

}

else{

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

noTone(BuzzerPin);

}

}