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CODE:

void setup()

{

Serial.begin(9600);

pinMode(12,OUTPUT);

pinMode(2,INPUT);

}

void loop()

{

int motion=digitalRead(2);

double data=analogRead(A0);

double n=data/1024;

Serial.print("Converted Analog Data: ");

Serial.println(n);

double volt=n\*5; //because connected to 5v

Serial.print("Voltage data: ");

Serial.println(volt);

double off=volt-0.5;

Serial.print("Offset Data: ");

Serial.println(off);

double temperature=off\*100;

Serial.print("Temperature Data: ");

Serial.println(temperature);

if(motion==1 && temperature<60)

tone(12,100);

else if(motion==0 && temperature>60)

tone(12,200);

else if(motion==1 && temperature>60)

noTone(12);

else if(motion==0 && temperature<60)

noTone(12);

}

