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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);
```



