





Browser tabs: Your Platform temporary passwo, IBM, Circuit design Mighty Allis-Vihe!

URL: tinkercad.com/things/ccQhoPVInxq-mighty-allis-vihelmo/editel?tenant=circuits

Project Name: Mighty Allis-Vihelmo

Buttons: Code, Start Simulation, Send To

Text Editor: 1 (Arduino Uno R3)

```
1 void setup()
2 {
3   Serial.begin(9600);
4   pinMode(13,INPUT);
5   pinMode(12,OUTPUT);
6 }
7
8 void loop()
9 {
10  double data=analogRead(A2);
11  double n=data/1024;
12  double volt=n*5;
13  double off=volt-0.5;
14  double temperature=off*100;
15  int motion=digitalRead(13);
16  for(int freq=4;freq<=5;freq++)
17  {
18    if(temperature>=60)
19    {
20      Serial.println("Temperature is above 60");
21      tone(12,freq);
22      delay(100);
23    }
24    else
25    {
26      Serial.println("Temperature is below 60");
27      noTone(12);
28    }
29  }
30  for(int freq=2;freq<=3;freq++)
31  {
32    if(motion==1)
33    {
34      Serial.println("Motion Detected");
35      tone(12,freq);
36      delay(200);
37    }
38    else
39    {
40      Serial.println(" No Motion");
41      noTone(12);
42    }
43  }
44 }
```

Serial Monitor

