



```
// C++ code

//

void setup()

{
    Serial.begin(9600);
    pinMode(2,INPUT);
    pinMode(13,OUTPUT);
}

void loop()

{
    int motion=digitalRead(2);
    double data=analogRead(A2);
    double n=data/1024;
    Serial.print("Coverted Analog data: ");
    Serial.println(n);
    double volt=n*5;
    Serial.print("Voltage data: ");
    Serial.println(volt);
    double off=volt-0.5;
    Serial.print("After offset data: ");
    Serial.println(off);
    double temp=off*100;
    Serial.println("temp data");
    Serial.println(temp);
    if(motion==1 && temp<60)
        tone(13,1020);
    else if(motion==0 && temp>60)
        tone(13,1500);
    else if(motion==1 && temp>60)
        tone(13,1700);
    else if(motion==0 && temp<60)
        noTone(13);
}
```