

```
void setup() {  
    Serial.begin(9600);  
}  
  
void loop() {  
    int sensorValue = analogRead(A0);  
    Serial.println(sensorValue);  
    int thisPitch = map(sensorValue, 0, 400, 500,  
2000);  
    tone(8, thisPitch);  
    delay(1);  
}
```