...lmknapp/Dropbox/Contracting/Teaching/Workshop Weekend-Arduino/WWA Code/startercode/MK Code V2/Pot_to_LED/Pot_to_LED.ino

```
 1 /*
 2    Adapted From: Analog Input by David Cuartielles and Tom Igoe
 3    Author: Malcolm Knapp
 4    Project: Poteniemter to Blink Rate
 5    Date: 4/10/14
 6    Version: 0.1
 7    Description: This code shows how to use a poteniometer to control
 8                 the blink rate of a LED.
 9
10  */
11 // ---------- included libraries ------------
12 // None - include new libraries here
13
14 // ---------- hardware pin defines  -----------
15 int sensorPin = A0;     // select the input pin for the potentiometer
16 int ledPin = 13;        // select the pin for the LED
17
18 // ---------- variable initialization  -----------
19 int sensorValue = 0;  // variable to store the value coming from the sensor
20 int delayTime = 0; //
21 int scaling = 1;
22
23 // ---------- library initialization  -----------
24 // None -  initialize new libraries here
25
26 void setup() {
27    Serial.begin(9600);
28    // declare hardware connections
29    pinMode(ledPin, OUTPUT);
30 }
31
32 void loop() {
33    // Input
34    sensorValue = analogRead(sensorPin);
```

...hing/Workshop Weekend-Arduino/WWA Code/startercode/MK Code V2/Light_Sensor_to_LED/___Light_Sensor_to_LED___ino___48SjZ4

```
 1 /*
 2    Adapted From: Analog Input by David Cuartielles and Tom Igoe
 3    Author: Malcolm Knapp
 4    Project: Poteniemter to Blink Rate
 5    Date: 4/10/14
 6    Version: 0.1
 7    Description: This code shows how to use a light sensor to control
 8                 the blink rate of a LED.
 9
10  */
11 // ---------- included libraries ------------
12 // None - include new libraries here
13
14 // ---------- hardware pin defines  -----------
15 int sensorPin = A0;     // select the input pin for the potentiometer
16 int ledPin = 13;       // select the pin for the LED
17
18 // ---------- variable initialization  -----------
19 int sensorValue = 0;  // variable to store the value coming from the sensor
20 int delayTime = 0; //
21 int scaling = 1;
22 int maxValue = 300;
23 int minValue = 750;
24
25 // ---------- library initialization  -----------
26 // None -  initialize new libraries here
27
28 void setup() {
29    Serial.begin(9600);
30    // declare hardware connections
31    pinMode(ledPin, OUTPUT);
32 }
33
34 void loop() {
35    // Input
36    sensorValue = analogRead(sensorPin);
```

...lmknapp/Dropbox/Contracting/Teaching/Workshop Weekend-Arduino/WWA Code/startercode/MK Code V2/Pot_to_LED/Pot_to_LED.ino

```
35    // Debugging
36    Serial.println(sensorValue);

37
38    // Processing
39    // Scaling
40    delayTime = scaling*sensorValue;

41    // Modes
42    // None - put new modes here
43
44    // Output
45    digitalWrite(ledPin, HIGH); // turn the ledPin on
46    delay(delayTime);
47    digitalWrite(ledPin, LOW);   // turn the ledPin off:
48    delay(delayTime);
49 }
```

...hing/Workshop Weekend-Arduino/WWA Code/startercode/MK Code V2/Light_Sensor_to_LED/___Light_Sensor_to_LED___ino___48SjZ4

```
37    // Debugging
38    Serial.print("Sensor value: ");  Serial.println(sensorValue);
39
40
41    // Processing
42    //Scaling
43    int delayTime = map (sensorValue, minValue-1, maxValue, 0, 1023);
44    Serial.print ("Delay in milliseconds: "); Serial.println (delayTime);
45    // Modes
46    // None - put new modes here
47
48    // Output
49    digitalWrite(ledPin, HIGH); // turn the ledPin on
50    delay(delayTime);
51    digitalWrite(ledPin, LOW);   // turn the ledPin off:
52    delay(delayTime);
53 }
```