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Adapted From: Analog Input by David Cuartielles and Tom Igoe
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Project: Potentiometer to LED
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Version: 0.1
Description: This code shows how to use a potentiometer to control
         the blink rate of a LED.
// ----- included libraries -----
// None - include new libraries here
// ----- hardware pin defines -----
int sensorPin = A0; // select the input pin for the potentiometer
int ledPin = 13; // select the pin for the LED
// ----- variable initialization -----
int sensorValue = 0; // variable to store the value coming from the sensor
int delayTime = 0; //
int scaling = 1;
// ----- library initialization -----
// None - initialize new libraries here
void setup() {
Serial.begin(9600);
// ----- declare hardware connections -----
pinMode(ledPin, OUTPUT);
void loop() {
// Input
sensorValue = analogRead(sensorPin);
// Debugging
 Serial.print("Sensor value: "); Serial.println(sensorValue);
// Processing
// Scaling
delayTime = scaling*sensorValue;
Serial.print ("Delay in milliseconds: "); Serial.println (delayTime);
 // Output
digitalWrite(ledPin, HIGH); // turn the ledPin on
 delay(delayTime);
 digitalWrite(ledPin, LOW); // turn the ledPin off:
 delay(delayTime);
```