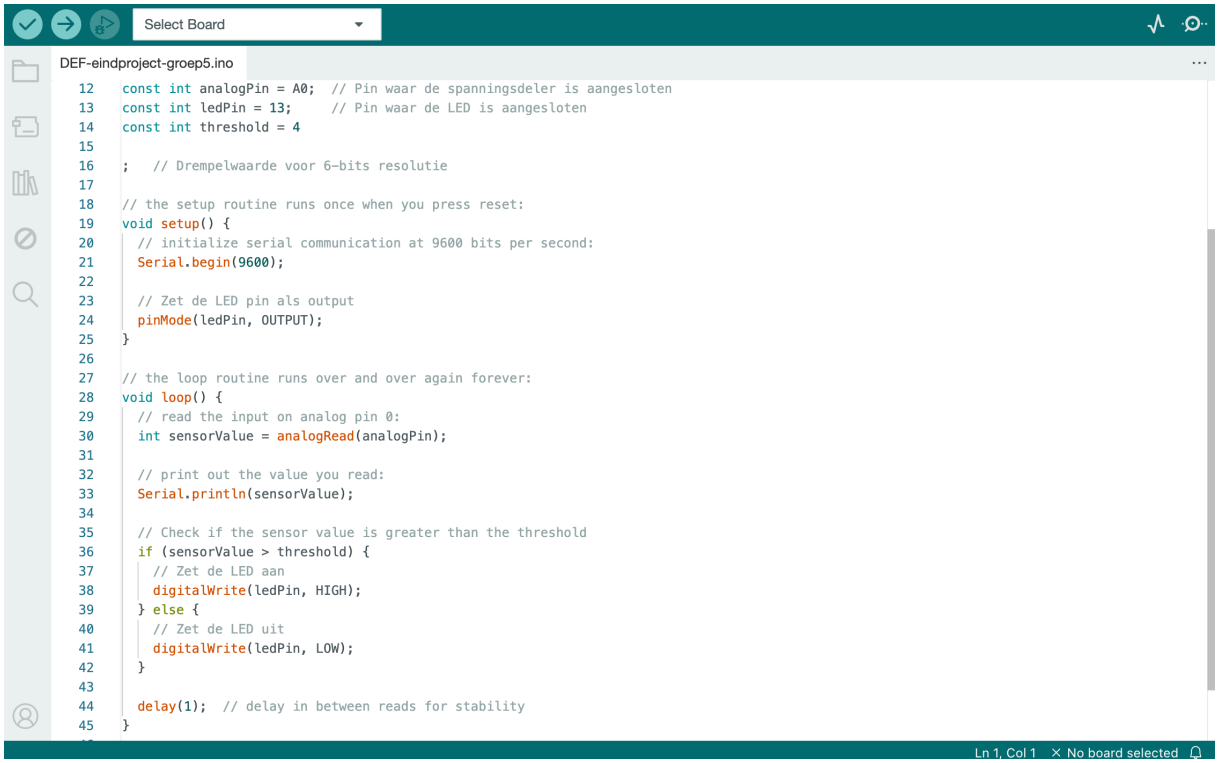


```
const int analogPin = A0;  // Pin waar de spanningsdeler is aangesloten
const int ledPin = 13;     // Pin waar de LED is aangesloten
const int threshold = 4

;   // Drempelwaarde voor 6-bits resolutie

// the setup routine runs once when you press reset:
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);

  // Zet de LED pin als output
  pinMode(ledPin, OUTPUT);
}

// the loop routine runs over and over again forever:
void loop() {
  // read the input on analog pin 0:
  int sensorValue = analogRead(analogPin);

  // print out the value you read:
  Serial.println(sensorValue);

  // Check if the sensor value is greater than the threshold
  if (sensorValue > threshold) {
    // Zet de LED aan
    digitalWrite(ledPin, HIGH);
  } else {
    // Zet de LED uit
    digitalWrite(ledPin, LOW);
  }

  delay(1);  // delay in between reads for stability
}
```