

```

/* =====
=          Arduino 互換 DENSUKEP          =
=                                          =
=          検査スケッチ (温度、電圧、Lチカ)  =
=                                          =
=                                          By M.Obi  =
=                                          2015/01/28 =
=                                          2018/10/08 =
=                                          Ver 2.0   =
=====
*/

// 温度IC S-8120C パラメータ

#define TEMP30      -30    // 『-』記載漏れで訂正
#define VOLTATTEMP30 1445  // 1474を実測で訂正
#define TEMPDELTA   8.2
#define AREFVOLT     3300
#define RESOLUTION  1024

// IOピン設定

#define TEMP_pin    A0
#define BAT_pin     A1

#define LED_pin     7

void setup()
{
  Serial.begin(9600);
  pinMode(LED_pin, OUTPUT);
}

void loop()
{
  int ad_temp, ad_bat, Bat_volt;
  float temp, temp_volt;

  ad_temp = analogRead(TEMP_pin);
  temp_volt = ((long)ad_temp * AREFVOLT) / RESOLUTION;
  temp      = TEMP30 + ((VOLTATTEMP30 - temp_volt) / TEMPDELTA);

  delay(100);

  ad_bat = analogRead(BAT_pin);
  Bat_volt = (((long)ad_bat * AREFVOLT) / RESOLUTION)*2;

  Serial.print("Temp AD= ");
  Serial.print(ad_temp);
  Serial.print("  Temp Volt= ");
  Serial.print(temp_volt);
  Serial.print("  Temp = ");
  Serial.print(temp);

  Serial.print("C  Bat_Volt = ");
  Serial.print(Bat_volt);
  Serial.print("mV (Ad = ");
  Serial.print(ad_bat);
  Serial.println(")");

  digitalWrite(LED_pin, HIGH);
  delay(400);
  digitalWrite(LED_pin, LOW);
  delay(500);
}

```