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/*
 * Demo   : ET-SENSOR SHT10
 *       : I2C Interface Sensor
 * MCU    : ATMEGA32U4
 *       : Arduino Leonardo
 * I2C    : SHT10 (I2C:SCL=D3,SDA=D2)
 */

#include <Wire.h>
#include "SHT1x.h"

//=====
#define SHT10_SDA_PIN  2
#define SHT10_SCL_PIN  3
SHT1x SHT10(SHT10_SDA_PIN, SHT10_SCL_PIN);
//=====

float sht10_temperature;
float sht10_humidity;
//=====

//=====
unsigned long lastGetI2CSensorTime = 0;
//=====

void setup()
{
  Serial.begin(115200);
  // Wait MEGA32U4 USB Serial Complete
  while(!Serial);
  Serial.println();
  Serial.println("SHT10...Test");
}

void loop()
{
  //=====
  // Start of Read I2C Sensor(BME280)
  //=====
  if(millis() - lastGetI2CSensorTime > 5000ul)           // 5-Second
  {
    sht10_temperature = SHT10.readTemperatureC();
    sht10_humidity = SHT10.readHumidity();

    Serial.print("SHT10 Temperature = ");
    Serial.print(sht10_temperature, 1);
    Serial.println("C");

    Serial.print("SHT10 Humidity = ");
    Serial.print(sht10_humidity,1);
  }
}

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Serial.println("%");
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```
Serial.println();
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//=====
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```
lastGetI2CSensorTime = millis();
```

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//=====
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```
}
```

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}
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