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// copy all text into the Arduino sketch editor


// Temperature - Barometrical pressure - Humidity
// Temperatur - Luftdruck - Luftfeuchtigkeitsmessung

// The libraries below listed need to be included for ESP8266 into the sketch
#include <Wire.h>
#include <SPI.h>
#include <Adafruit_Sensor.h>
#include <Adafruit_BME280.h>


Adafruit_BME280 bme; // I2C


unsigned long delayTime; // delay for repeating the cycle

// Setup will run one time only
// einmaliger Anfangssetup

void setup() {
    Serial.begin(115200); // Serial Monitor baudrate (check value in IDE-monitor!)

    while(!Serial);    // time to get serial running
    Serial.println(F("BME280 wird getested"));

    unsigned status;

    // default settings
    // (you can also pass in a Wire library object like &Wire2)

    status = bme.begin();
    if (!status) {
        Serial.println("Could not find a valid BME280 sensor, check wiring, address, sensor ID!");
        Serial.print("SensorID was: 0x"); Serial.println(bme.sensorID(),16);
        Serial.print("        ID of 0xFF probably means a bad address, a BMP 180 or BMP 085\n");
        Serial.print("        ID of 0x56-0x58 represents a BMP 280,\n");
        Serial.print("        ID of 0x60 represents a BME 280.\n");
        Serial.print("        ID of 0x61 represents a BME 680.\n");
        while (1);
    }

    Serial.println("-- Default Test --");

    delayTime = 10000;  // please define cycle time 10000 = 10sec or later "n*60sec"
// Note: Using e.g., Thingspeak later in free license max use is 150000!

   Serial.println();
}


// Program will now run in this loop

void loop() {
    printValues();
    delay(delayTime);
}


void printValues() {
    Serial.print("Temperature = ");
    Serial.print(bme.readTemperature());
    Serial.println(" *C");

    Serial.print("Pressure = ");
    Serial.print(bme.readPressure() / 100.0F);
    Serial.println(" hPa");

    Serial.print("Humidity = ");
    Serial.print(bme.readHumidity());
    Serial.println(" r.F. %");

    Serial.println();
}
```