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Zegar cyfrowy z pomiarem temperatury na bazie Arduino

```
#include "RTClib.h"
#include <Arduino.h>
#include <TM1637Display.h>
#include "DHT.h"
#include <OneWire.h>
#include <DallasTemperature.h>
#include <SPI.h>
#include <Wire.h>

#define CLK 6
#define DIO 4
#define DHTPIN 9
#define DHTTYPE DHT11

#define ONE_WIRE_BUS 3

RTC_DS1307 rtc;

TM1637Display display(CLK, DIO);

DHT dht(DHTPIN, DHTTYPE);

OneWire oneWire(ONE_WIRE_BUS);
DallasTemperature sensors(&oneWire);

void setup() {

    rtc.begin();
    sensors.begin();

    display.setBrightness(0x0f);
    display.showNumberDecEx(8888,0b01000000, false);
    delay(3000);
    display.clear();
    display.setBrightness(3);
    Serial.begin(57600);
    dht.begin();
}

void loop() {
    sensors.requestTemperatures();
    float tempC = sensors.getTempCByIndex(0);
    int tempINT = round(tempC);
    DateTime now = rtc.now();
    int Minute = now.minute();
    int Hour = now.hour();
```

```
String strMinute;
String strHour;
float h = dht.readHumidity();
float t = dht.readTemperature();

if(Hour < 10)
    {strHour = "0" + String(Hour);}
else if(Hour >= 10)
    {strHour = String(Hour);}
else if(Hour == 0)
    {strHour = "00";}

if(Minute < 10)
    {strMinute = "0" + String(Minute);}
else if(Minute >= 10)
    {strMinute = String(Minute);}
else if(Minute == 0)
    {strMinute = "00";}

String Time;
Time += strHour;
Time += strMinute;

if(Time == "0"){
    Time = "0000";
}

Serial.println(tempC);
Serial.println(tempINT);
int numTime = Time.toInt();
display.clear();
display.showNumberDecEx(numTime,0b01000000, true);
delay(2000);
display.clear();
display.showNumberDec(t,false,2,1);
delay(2000);
display.clear();
display.showNumberDec(h,false,2,1);
delay(2000);
display.clear();
display.showNumberDec(tempINT,false,2,1);
delay(2000);
}
```

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