- a × sketch_dec23d | Arduino 1.8.19 (Windows Store 1.8.57.0) 機器 議報 草稿碼 工具 説明 2 #include <OneWire.h>
3 int DS18820 Pin = 2; //DS18820 Signal pin on digital pin 2
4 //Temperature chip i/o
5 OneWire ds(DS18820_Pin); // on digital pin 2 void setup(void) {
 pinMode(6, OUTPUT);//relay
 pinMode(8, OUTPUT);//relay
 Serial.begin(9600); 15
16
17
18 float temperature = getTemp();
19 Serial.println(temperature);
20 delay(500); //to slow down the output so it is easier to read
21 if (temperature <= 24){
22 digitalWrite(8, UND); //relay
23 digitalWrite(8, HIGH); //relay
24 digitalWrite(4, HIGH);
25 digitalWrite(5, LOW);
26 digitalWrite(7, LOW); ▲ 18°C 多雲時般 へ ② ■ ▲ 爲 40 中 上午 12:24 長 2022/1/6 sketch_dec23d | Arduino 1.8.19 (Windows Store 1.8.57.0) - a × 被表 接続 草稿場 工具 説明 } elne if (24 < temperature && temperature <= 26){
digitalWrite(6,HIGH); //relay
digitalWrite(8,HIGH); //relay
digitalWrite(8,HIGH);
digitalWrite(5,HIGH);
digitalWrite(7,LOW);
digitalWrite(7,LOW);
dlay(100);
}</pre> else if (26 <= temperature) {
 digitalWrite(6, HIGH): //HOT
 digitalWrite(8, LOW);
 digitalWrite(4, LOW);
 digitalWrite(4, LOW);
 digitalWrite(5, LOW);
 digitalWrite(5, LOW);
 digitalWrite(7, HIGH);
 delay(100); 48
49
50 float getTemp(){
51 //returns the temperature from one DS18S20 in DEG Celsius
52 temperature from one DS18S20 in DEG Celsius **エ ク 財 💽 👼 💼 🍖 🕕 🖸 💆 📠**

- a × sketch_dec23d | Arduino 1.8.19 (Windows Store 1.8.57.0) 横案 編輯 草稿碼 工具 説明 //returns the temperature from one DS18S20 in DEG Celsius byte data[12]: byte data[12];
byte addr[8];
if (!ds.search(addr)) {
 //no more sensors on chain, reset search
 ds.reset_search();
 return -1000; if (OneWire::crc%(addr, 7) != addr[7]) {
 Serial.println("CRC is not valid!");
 return -1000; }
if (addr[0] != 0x10 && addr[0] != 0x28) {
 Serial.print("Device is not recognized");
 return -1000; ds.reset(); ds.reset();
ds.wsite(0x44,1); // start conversion, with parasite power on at the end
byte present = ds.reset();
ds.wsite(0x48,1); // start conversion, with parasite power on at the end
byte present = ds.reset();
ds.wsite(0xBE); // Read Scratchpad
for [int i = 0; i < 9; i++) { // we need 9 bytes
data[i] = ds.read();</pre> }
ds.reset_search(); **18°C** 多要時股 ∧ ② ■ ♠ ℓ 40 中 2022/1/6 = 2 単 😍 🚞 🚖 🧐 🗓 💆 o × sketch_dec23d | Arduino 1.8.19 (Windows Store 1.8.57.0) 情素 編輯 草稿碼 工具 説明 f (OneWire::crc8(addr, 7) != addr[7]) {
 Serial.println("CRC is not valid!");
 return -1000; }
if (addr[0] != 0x10 && addr[0] != 0x28) {
 Serial.print("Device is not recognized");
 return -1000; }
ds.reset();
ds.relect(addr);
ds.welect(addr);
ds.write(0x44,1); // start conversion, with parasite power on at the end
byte present = ds.reset();
ds.select(addr);
ds.write(0xBE); // Read Scratchpad
for (int i = 0; i < 9; i++) { // we need 9 bytes
data[i] = ds.read();)
ds.reset_search();
byte MSB = data[1];
byte LSB = data[0];
float tempRead = ((MSB << 8) | LSB); //using two's compliment
float TemperatureSum = tempRead / 16;
return TemperatureSum; 오 배 🙋 🔚 💼 🧐 🕕 🖸 🚾 ★ 18°C 多雲筋酸 へ ⑤ 🖦 🐔 🖟 40 中 上午 12:24 2022/1/6

```
#include <OneWire.h>
 int DS18S20 Pin = 2; //DS18S20 Signal pin on digital pin 2
 //Temperature chip i/o
OneWire ds(DS18S20_Pin); // on digital pin 2
 void setup(void) {
  pinMode(6, OUTPUT);//relay
  pinMode(8, OUTPUT);//relay
  Serial.begin(9600);
}
 void loop(void) {
  float temperature = getTemp();
  Serial.println(temperature);
  delay(500); //to slow down the output so it is easier to read
   if( temperature <= 24 ){
     digitalWrite(6,LOW); //relay
     digitalWrite(8,HIGH);//relay
     digitalWrite(4,HIGH);
     digitalWrite(5,LOW);
     digitalWrite(7,LOW);
     delay(100);
    }
     else if ( 24 < temperature && temperature <= 26 ){
     digitalWrite(6,HIGH); //relay
     digitalWrite(8,HIGH); //relay
     digitalWrite(4,LOW);
     digitalWrite(5,HIGH);
     digitalWrite(7,LOW);
     delay(100);
     else if (26 <= temperature){
```

```
digitalWrite(6,HIGH); //HOT
     digitalWrite(8,LOW);
     digitalWrite(4,LOW);
     digitalWrite(5,LOW);
     digitalWrite(7,HIGH);
     delay(100);
     }
  delay(1000);
}
float getTemp(){
  //returns the temperature from one DS18S20 in DEG Celsius
  byte data[12];
  byte addr[8];
  if (!ds.search(addr)) {
       //no more sensors on chain, reset search
       ds.reset_search();
       return -1000;
  }
  if ( OneWire::crc8( addr, 7) != addr[7]) {
       Serial.println("CRC is not valid!");
       return -1000;
  }
  if (addr[0]!=0x10 && addr[0]!=0x28) {
       Serial.print("Device is not recognized");
       return -1000;
  }
  ds.reset();
  ds.select(addr);
  ds.write(0x44,1); // start conversion, with parasite power on at the end
  byte present = ds.reset();
  ds.select(addr);
  ds.write(0xBE); // Read Scratchpad
  for (int i = 0; i < 9; i++) { // we need 9 bytes
     data[i] = ds.read();
  }
  ds.reset_search();
```

```
byte MSB = data[1];
byte LSB = data[0];
float tempRead = ((MSB << 8) | LSB); //using two's compliment
float TemperatureSum = tempRead / 16;
return TemperatureSum;
}</pre>
```