|  |  |
| --- | --- |
|  | #include <LiquidCrystal\_I2C.h> |
|  |  |
|  | #include <Servo.h> |
|  | #include <Wire.h> |
|  | #include <Adafruit\_MLX90614.h> |
|  |  |
|  | Adafruit\_MLX90614 mlx = Adafruit\_MLX90614(); |
|  | LiquidCrystal\_I2C lcd(0x27,20,4); |
|  |  |
|  | Servo myservo1; |
|  | Servo myservo2; |
|  |  |
|  | #define red 13 |
|  | #define haha 4 |
|  | int pos1,pos2; |
|  |  |
|  | void setup() { |
|  | Serial.begin(9600); |
|  | pinMode(red,OUTPUT); |
|  | pinMode(haha,INPUT); |
|  | myservo1.attach(7); |
|  | myservo2.attach(8); |
|  | myservo1.write(90); |
|  | myservo2.write(90); |
|  | mlx.begin(); |
|  |  |
|  | lcd.init(); |
|  | lcd.backlight(); |
|  |  |
|  |  |
|  | } |
|  |  |
|  | void loop() { |
|  |  |
|  | int montion = digitalRead(haha); |
|  |  |
|  | if(montion == 1){ |
|  |  |
|  | Serial.print("made"); |
|  | Serial.print("\n"); |
|  | lcd.setCursor(0,0); |
|  | lcd.print("ObjectTemp:"); |
|  | lcd.setCursor(13,3); |
|  | lcd.print("-DKARDU"); |
|  |  |
|  | kaiguan(); |
|  | } |
|  | } |
|  |  |
|  | void kaiguan(){ |
|  |  |
|  | int temp\_obj = mlx.readObjectTempC(); |
|  | Serial.print(temp\_obj); |
|  | Serial.print("\n"); |
|  | if(temp\_obj < 31){ |
|  | lcd.setCursor(0,1); |
|  | lcd.print(temp\_obj); |
|  | lcd.setCursor(0,2); |
|  | lcd.print("Not detected,retest!"); |
|  |  |
|  | }if(temp\_obj > 30 && temp\_obj <38){ |
|  |  |
|  | lcd.setCursor(0,1); |
|  | lcd.print(temp\_obj); |
|  | lcd.setCursor(0,2); |
|  | lcd.print("body temperature ok "); |
|  | for(pos1 = 90; pos1 <= 180; pos1 += 1) |
|  | { |
|  | myservo1.write(pos1); |
|  | myservo2.write(180-pos1); |
|  | delay(15); |
|  | } |
|  | delay(5000); |
|  |  |
|  | for(pos1 = 180; pos1>=90; pos1 -=1) |
|  | { |
|  | myservo1.write(pos1); |
|  | myservo2.write(180-pos1); |
|  | delay(15); |
|  | } |
|  |  |
|  | } |
|  | if(temp\_obj>37){ |
|  | digitalWrite(red,HIGH); |
|  | lcd.setCursor(0,1); |
|  | lcd.print(temp\_obj); |
|  | lcd.setCursor(0,2); |
|  | lcd.print(" Keep out! "); |
|  | delay(500); |
|  |  |
|  | } |
|  | digitalWrite(red,LOW); |
|  | } |
|  |  |
|  |  |
|  |  |
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