//CHECK POINT 2

const int pin1=14;

double analogin;

void setup()

{

Serial.begin(9600);

pinMode(pin1,OUTPUT);

analogin=0;

}

void loop()

{

int i;

double Vin;

for(i=0;i<=5;i++)

{

analogin=0.7\*analogin+0.3\*analogRead(pin1);

}

Serial.print("analogin:");

Serial.println(analogin);

Serial.print("Vin:");

Vin=analogin\*2.5/4095;

Serial.println(Vin);

delay(2000);

}

|  |  |  |
| --- | --- | --- |
| 實際電壓(V) | AnalogRead讀值 | 推測電壓(V) |
| 0 | 3.38 | 0.00 |
| 0.5 | 825.84 | 0.50 |
| 1 | 1654.15 | 1.01 |
| 1.5 | 2480.7 | 1.52 |
| 2 | 3301.34 | 2.02 |
| 2.5 | 4092 | 2.50 |