

树莓派第五课 流水灯控制

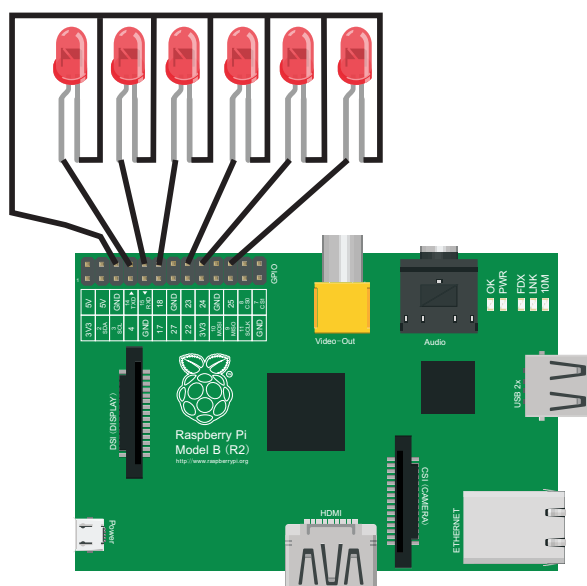
```
pi@raspberrypi: ~/树莓派基础套件程序资料/第五课/流水灯/
pi@raspberrypi: ~/树莓派基础套件程序资料/第五课/流水灯 $ ls
liushuideng_LED.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第五课/流水灯 $ nano liushuideng_LED.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第五课/流水灯 $ gcc -Wall -o liushuideng liushuideng_LED.c -lwiringPi
pi@raspberrypi: ~/树莓派基础套件程序资料/第五课/流水灯 $ ls
liushuideng liushuideng_LED.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第五课/流水灯 $ gpio readall
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| BCM | wPi |   Name   | Mode | V | Physical | V | Mode |   Name   | wPi | BCM |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|    |    | 3.3v    |      |   | 1 || 2 |   |      | 5v      |    |    |
|  2  |  8  | SDA.1    | ALT0 | 1 | 3 || 4 |   |      | 5V       |    |    |
|  3  |  9  | SCL.1    | ALT0 | 1 | 5 || 6 |   |      | 0v       |    |    |
|  4  |  7  | GPIO. 7  | IN   | 1 | 7 || 8 | 1 | ALT0 | TxD      | 15  | 14  |
|    |    | 0v      |      |   | 9 || 10 | 1 | ALT0 | RxD      | 16  | 15  |
| 17  |  0  | GPIO. 0  | IN   | 0 | 11 || 12 | 0 | ALT5 | GPIO. 1  | 1   | 18  |
| 27  |  2  | GPIO. 2  | IN   | 0 | 13 || 14 |   |      | 0v       |    |    |
| 22  |  3  | GPIO. 3  | IN   | 0 | 15 || 16 | 0 | IN   | GPIO. 4  | 4   | 23  |
|    |    | 3.3v    |      |   | 17 || 18 | 0 | IN   | GPIO. 5  | 5   | 24  |
| 10  | 12  | MOSI     | ALT0 | 0 | 19 || 20 |   |      | 0v       |    |    |
|  9  | 13  | MISO     | ALT0 | 0 | 21 || 22 | 1 | OUT  | GPIO. 6  | 6   | 25  |
| 11  | 14  | SCLK     | ALT0 | 0 | 23 || 24 | 1 | ALT0 | CE0      | 10  | 8   |
|    |    | 0v      |      |   | 25 || 26 | 1 | ALT0 | CE1      | 11  | 7   |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 28  | 17  | GPIO.17  | IN   | 0 | 51 || 52 | 0 | IN   | GPIO.18  | 18  | 29  |
| 30  | 19  | GPIO.19  | IN   | 0 | 53 || 54 | 0 | IN   | GPIO.20  | 20  | 31  |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| BCM | wPi |   Name   | Mode | V | Physical | V | Mode |   Name   | wPi | BCM |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
pi@raspberrypi: ~/树莓派基础套件程序资料/第五课/流水灯 $ sudo ./liushuideng
^Cpi@raspberrypi: ~/树莓派基础套件程序资料/第五课/流水灯 $
```

图一

```
pi@raspberrypi: ~/...  
GNU nano 2.2.6 File: liushuideng LED.c  
  
#include <wiringPi.h>  
  
int main()  
{  
    wiringPiSetup();  
    pinMode(1, OUTPUT);  
    pinMode(2, OUTPUT);  
    pinMode(3, OUTPUT);  
    pinMode(4, OUTPUT);  
    pinMode(5, OUTPUT);  
    pinMode(6, OUTPUT);  
  
    for (;;)   
    {  
        digitalWrite(1, HIGH);  
        delay(500);  
        digitalWrite(2, HIGH);  
        delay(500);  
        digitalWrite(3, HIGH);  
        delay(500);  
        digitalWrite(4, HIGH);  
        delay(500);  
        digitalWrite(5, HIGH);  
        delay(500);  
        digitalWrite(6, HIGH);  
        delay(500);  
        digitalWrite(6, LOW);  
        delay(500);  
        digitalWrite(5, LOW);  
        delay(500);  
    }  
}
```

^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell

图二



图三