

Project 5: LED chase effect

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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 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|    2 |    8 |  SDA.1   | ALTO | 1 |    3     | 4 |      | 5V     |     |     | |
|    3 |    9 |  SCL.1   | ALTO | 1 |    5     | 6 |      | 0V     |     |     |
|    4 |    7 | GPIO. 7  | IN   | 1 |    7     | 8 | 1 | ALTO | TxD  | 15 | 14 |
|      |     |    0V    |      |   |    9     |10 | 1 | ALTO | 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    | ALTO | 0 |   19     |20 |   |      | 0V    |   |   |
|    9 |   13 |  MISO    | ALTO | 0 |   21     |22 | 1 | OUT  | GPIO. 6 | 6 | 25 |
|   11 |   14 |  SCLK    | ALTO | 0 |   23     |24 | 1 | ALTO | CE0   |10 | 8  |
|      |     |    0V    |      |   |   25     |26 | 1 | ALTO | 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/ $

```

Pic. 1

```
pi@raspberrypi: ~/... LED.c
GNU nano 2.2.6 File: liushuideng LED.c

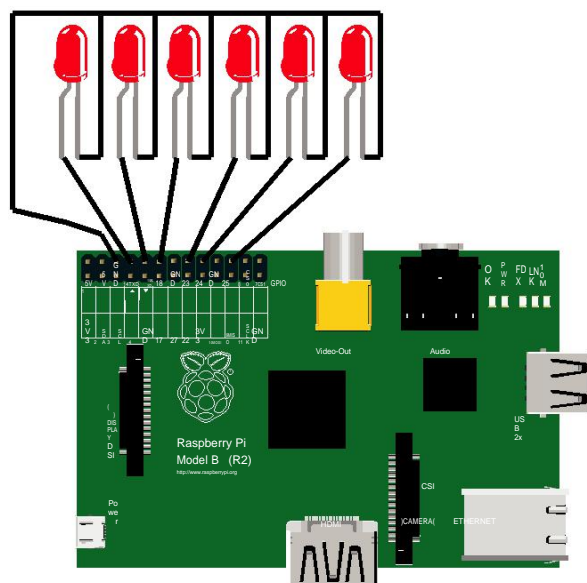
#include <wiringPi.h>

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

Pic. 2



Pic. 3