

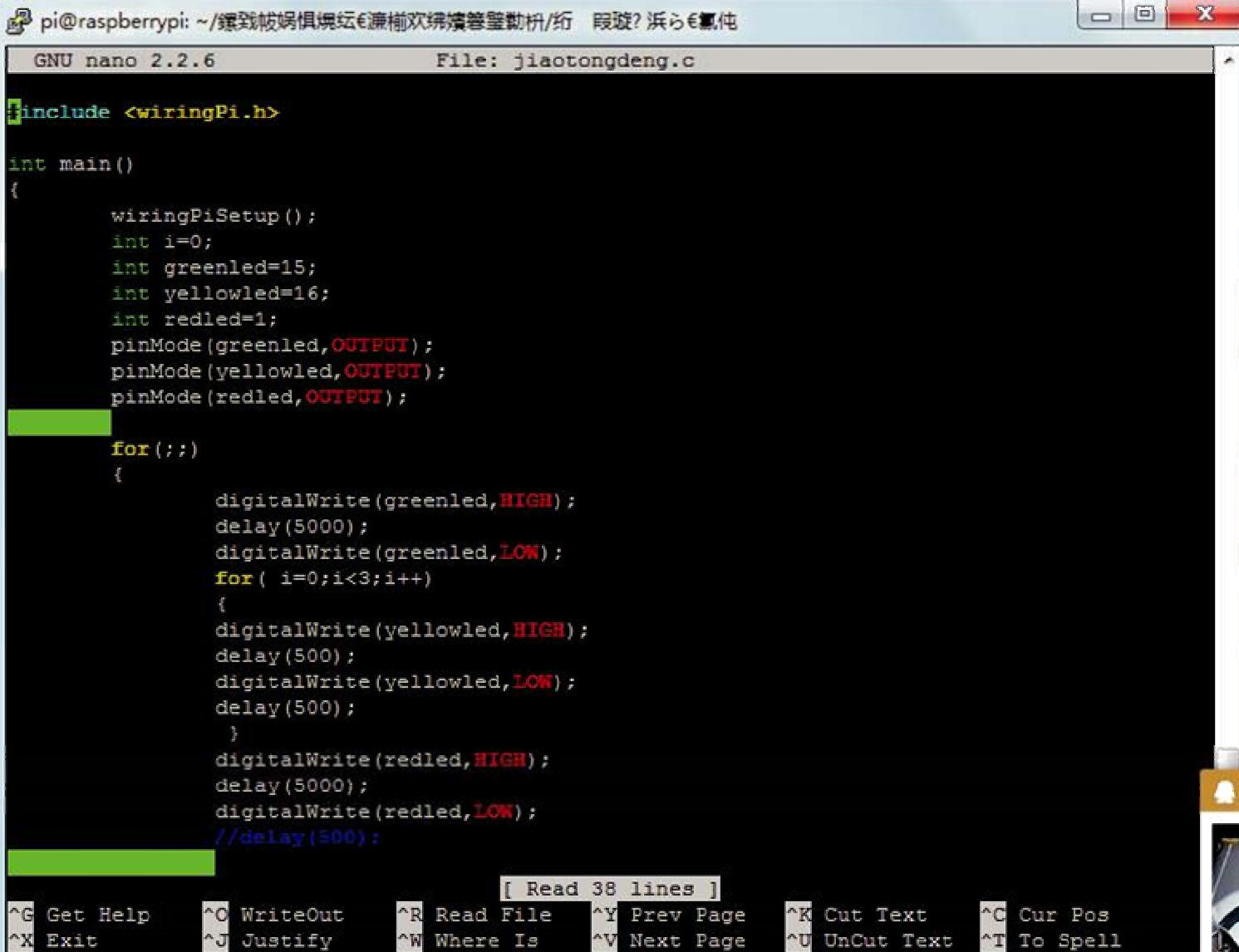
Project 6: Traffic light

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pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ cd 第六课/交通灯/
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ ls
jiaotongdeng.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ nano jiaotongdeng.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ 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 | 1    | OUT      | GPIO. 1 | 1  | 18  |
| 27   | 2    | GPIO. 2  | OUT  | 0  | 13 | 14 |      | 0v       |      |      |
| 22   | 3    | GPIO. 3  | OUT  | 0  | 15 | 16 | 0    | OUT      | GPIO. 4 | 4   | 23  |
|      |      | 3.3v     |      |   | 17 | 18 | 0    | OUT      | GPIO. 5 | 5   | 24  |
| 10   | 12   | MOSI     | ALT0 | 0  | 19 | 20 |      | 0v       |      |      |
| 9    | 13   | MISO     | ALT0 | 0  | 21 | 22 | 0    | 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/第六课/交通灯 $ gcc -Wall -o jiaotongdeng jiaotongdeng.c -lwiringPi
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ ls
jiaotongdeng  jiaotongdeng.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $ sudo ./jiaotongdeng
^Cpi@raspberrypi: ~/树莓派基础套件程序资料/第六课/交通灯 $

```

Pic. 1



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

#include <wiringPi.h>

int main()
{
    wiringPiSetup();
    int i=0;
    int greenled=15;
    int yellowled=16;
    int redled=1;
    pinMode(greenled,OUTPUT);
    pinMode(yellowled,OUTPUT);
    pinMode(redled,OUTPUT);

    for (;;)
    {
        digitalWrite(greenled,HIGH);
        delay(5000);
        digitalWrite(greenled,LOW);
        for ( i=0;i<3;i++)
        {
            digitalWrite(yellowled,HIGH);
            delay(500);
            digitalWrite(yellowled,LOW);
            delay(500);
        }
        digitalWrite(redled,HIGH);
        delay(5000);
        digitalWrite(redled,LOW);
        //delay(500);
    }
}
```

[Read 38 lines]

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^X Exit	^J Justify	^W Where Is	^V Next Page	^U UnCut Text	^T To Spell