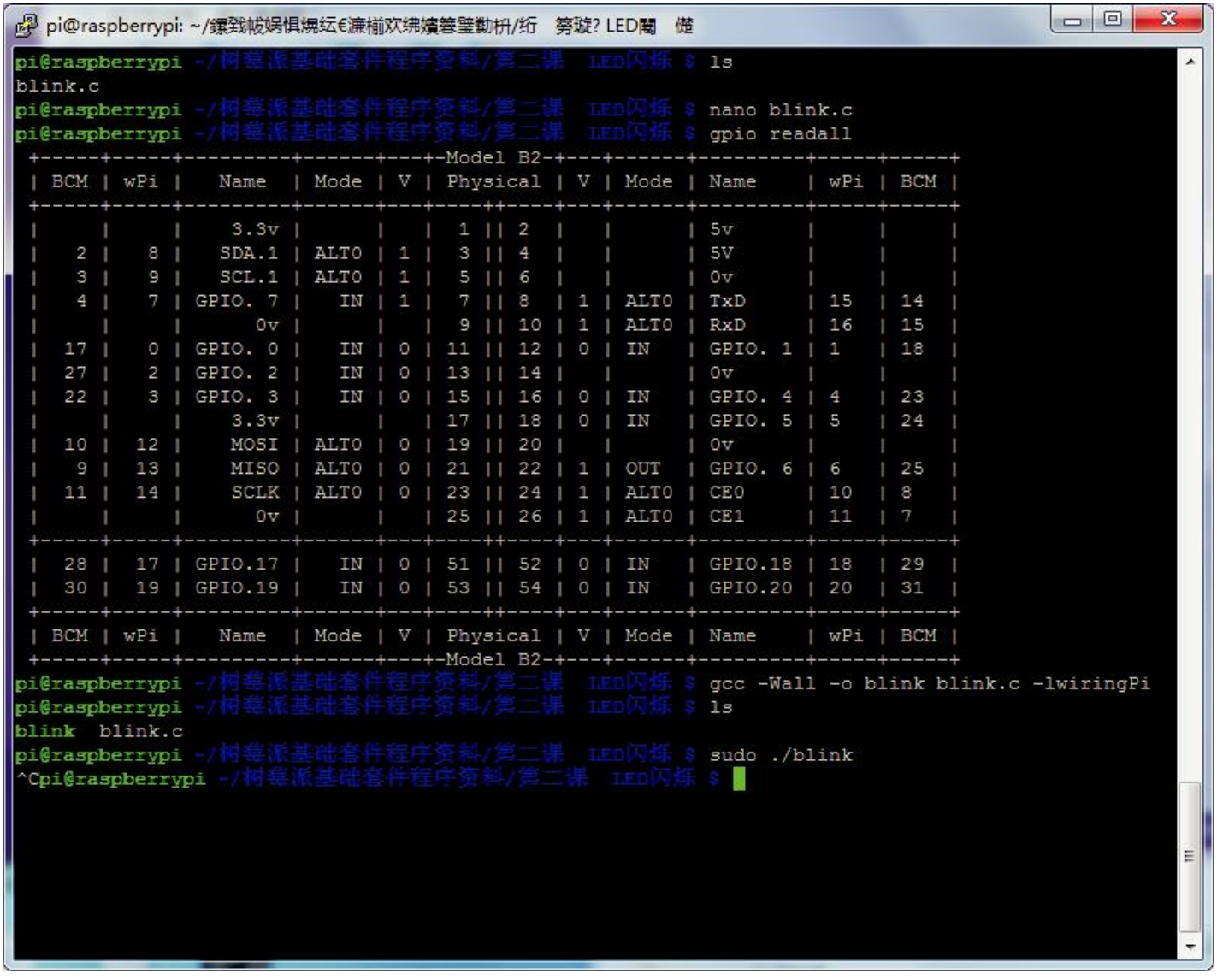
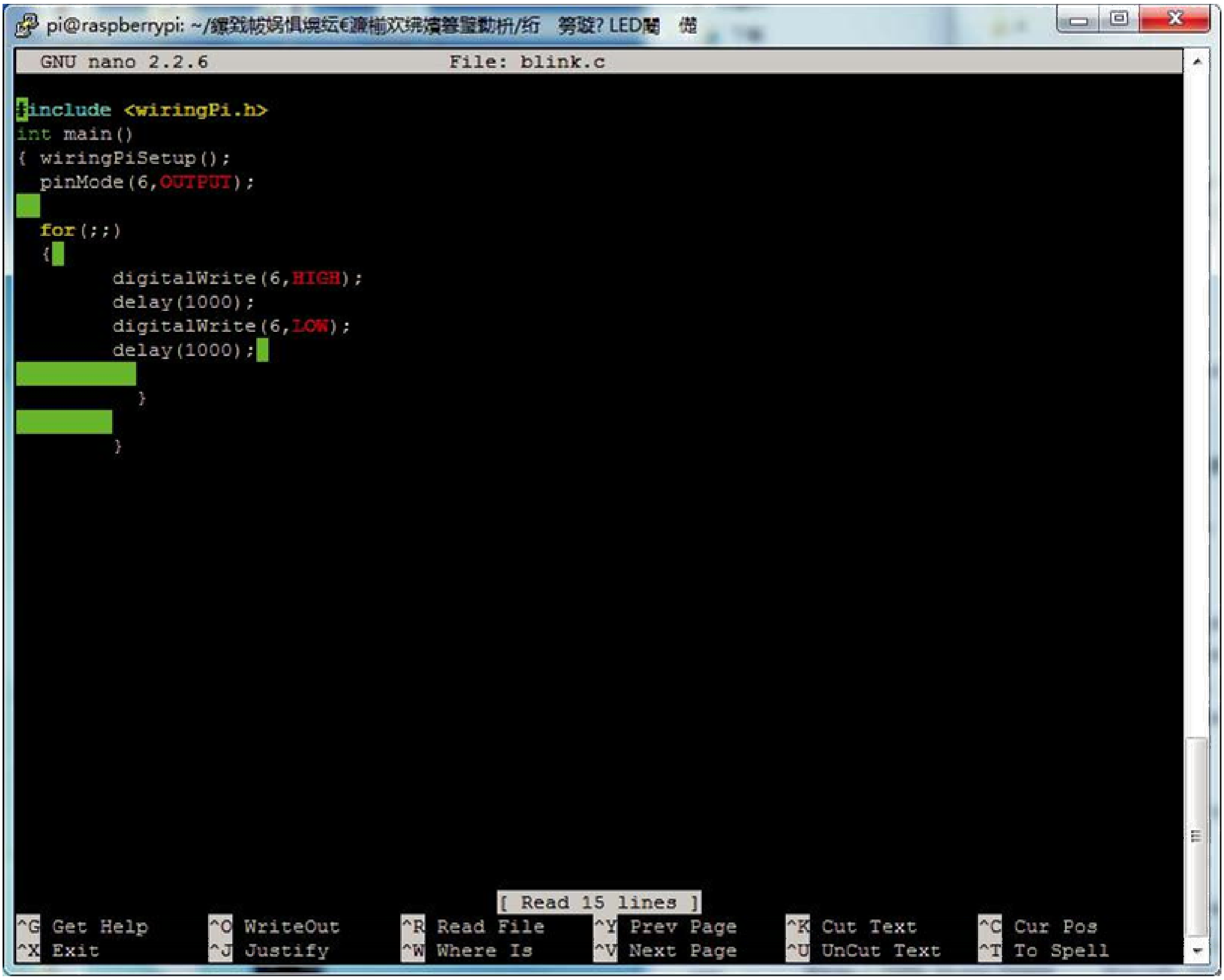
Project 2: LED blinking

Dear all, now let's begin our second project of Raspberry Pi Starter Kit with Keyes robot. First, enter the project 2 file, same way as in project 1. In this project, we need to use Wiring Pi library (see attachment for detailed installation). Also, we will begin to learn about a simple Nano editor for checking and editing our C file. Of course, you can use Vim, a powerful editor.

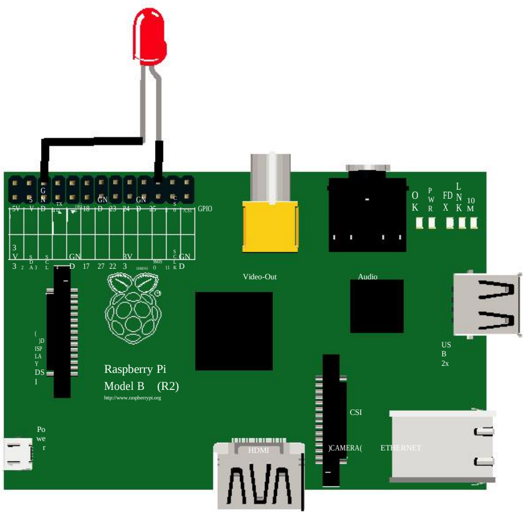
As below picture shows, enter Nano command to view blink C file. C file detailed content see picture 2. We can see "pinMode (6,OUTPUT);" statement, which means to set pin 6 as "output". Well, let's see which pin is pin 6. First, enter ctrl + x to exit Nano editing interface; then input gpio readall command to check, as below picture. We need to use Wiring Pi library for this project , so check the two columns of WPI; the number on it means pin number. Find pin 6; 0V means GND lead. For LED, you only need this two pins. Connection see picture 3. enter sudo command to execute the program. You will see the LED blinking. Enter ctrl + c to end the execution.



Pic. 1


pi@raspberrypi: ~/
GNU nano 2.2.6
File: blink.c
#include <wiringPi.h>
int main()
{ wiringPiSetup();
pinMode(6,OUTPUT);
for(;;)
{
digitalWrite(6,HIGH);
delay(1000);
digitalWrite(6,LOW);
delay(1000);
}
}
[Read 15 lines]
^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


GPIO
Video-Out
Audio
Raspberry Pi
Model B (R2)
CSI
HDMI
ETHERNET

Pic 3