

Project 2: LED blinking

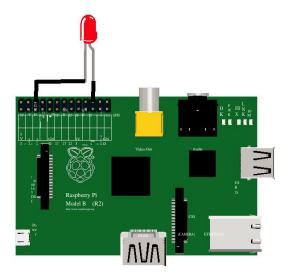
Dear all, now let's begin our second project of Raspberry Pi Starter Kit with Keyes robot. First, enter the project 2 file, same way as in project 1. In this project, we need to use Wiring Pi library (see attachment for detailed installation). Also, we will begin to learn about a simple Nano editor for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

BCM		Name							Mode I								
														Don	+		
	1 1	3.3v		1	1	1 2				5v		1					
2	8 1	SDA.1	ALTO	1 1	3	4			1	5V		I					
3	9 1	SCL.1	ALTO	1	5	6			1	0v		I					
4	7 1	GPIO. 7	IN	1	7	8	1 1	1	ALTO	TxD		15		14			
	1 1	04			9	1 10	1 1		ALTO	RxD		16		15			
17	0 1	GPIO. 0	IN	0	11	12	1 (1	IN	GPIO	. 1	1		18			
		GPIO. 2	IN	0	13	14			1	0.4		I					
22 10 9	 12 13	MOSI MISO	 ALTO ALTO	10	15		1 0	0 1		GPIO. GPIO. OV GPIO.		5		23 24 25			
					17	18	1 0				5						
					19	1 20											
11			ALTO						ALTO					8	!		
		04							ALTO			11		7	!		
28		GPIO.17												29	i		
30		GPI0.19															
всм	wPi	Name	Mode														
	++		+	+	Mode	el B2	-+	+		+			-+		+		
raspl	perrypi									_	-Wal:	L -0 1	bl.	ink b	link.c	-lwir	ingPi
										ls							
nk l	olink.c																
raspl	perrypi	-/树莓派 pi -/树莓								sudo	./b	link					
		- / D															
		7 10 1															

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廖 pi@raspberrypi: ~/缓致被妈俱煨纭€漉椾欢绵漬套鹽動枡/绗 篣璇? LED屬 儊
                                                                                       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 ]
                ^O WriteOut
^J Justify
                                                                                ^C Gur Pos
^T To Spel:
                                                ^Y Prev Page
                                                                ^K Gut Text
  Get Help
                                ^R Read File
   Exit
                                   Where Is
                                                   Next Page
                                                                   UnCut Text
                                                                                   To Spell
```

Pic. 2



Pic 3