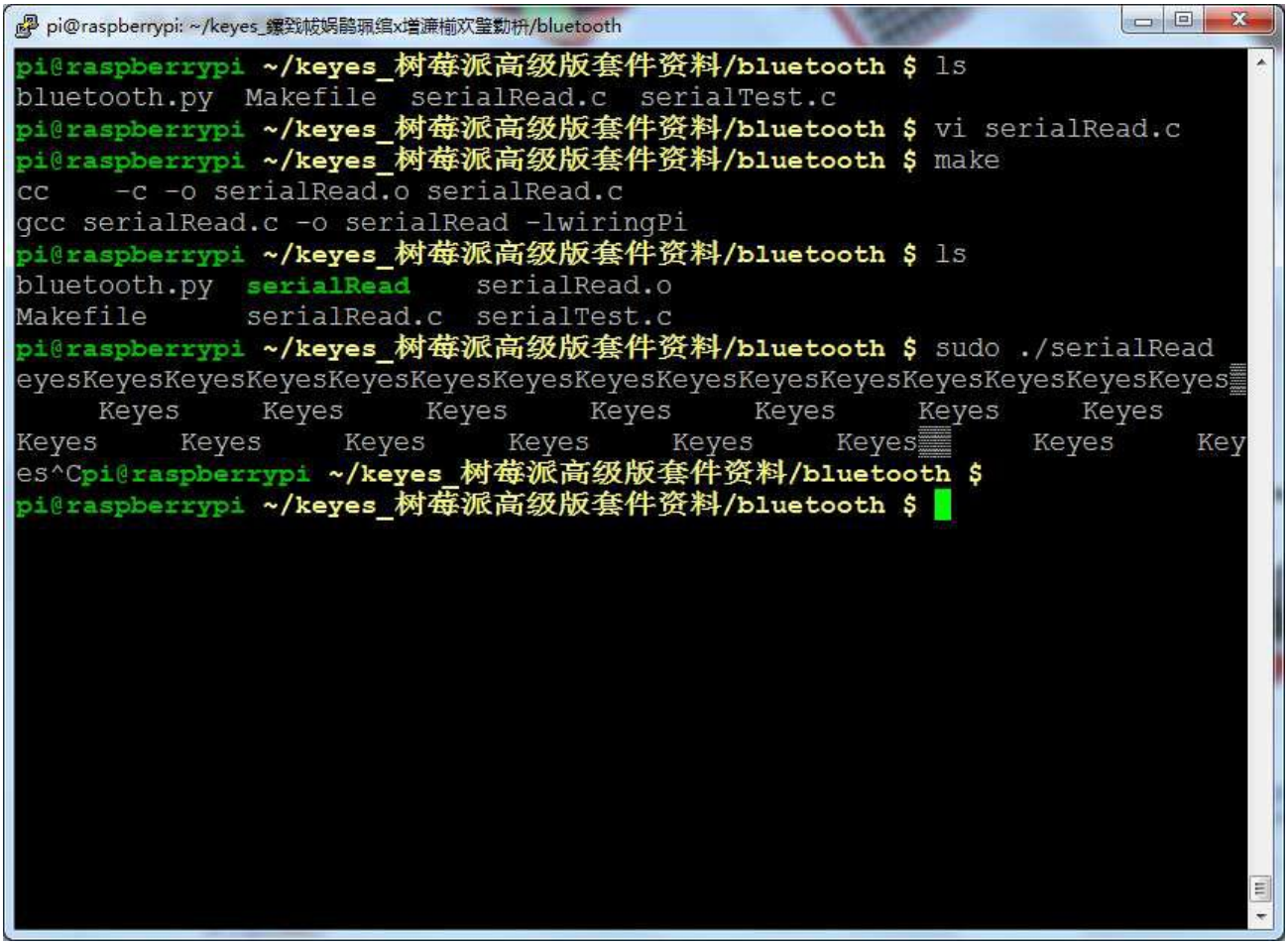
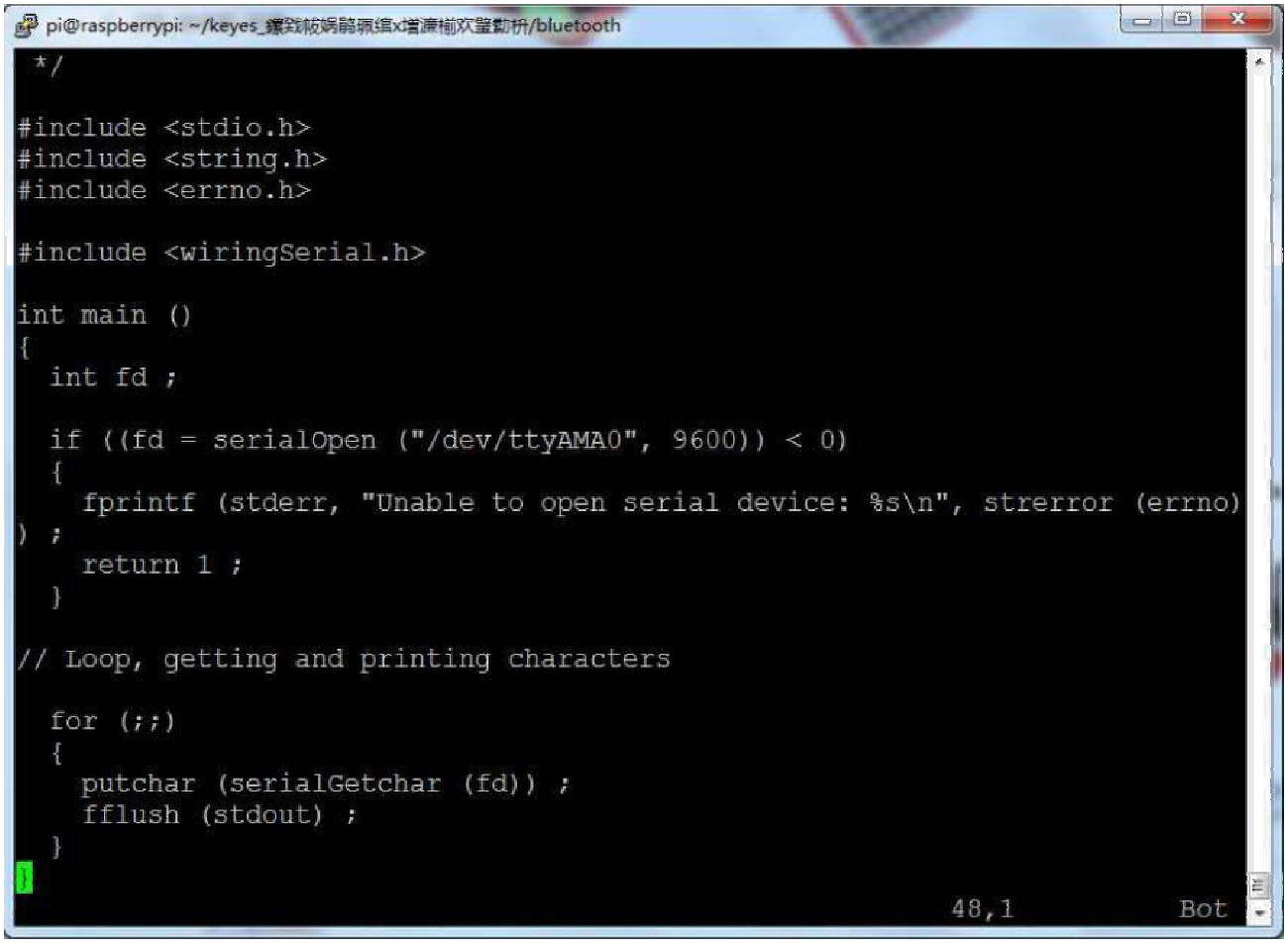
17 bluetooth module

1 Project process:

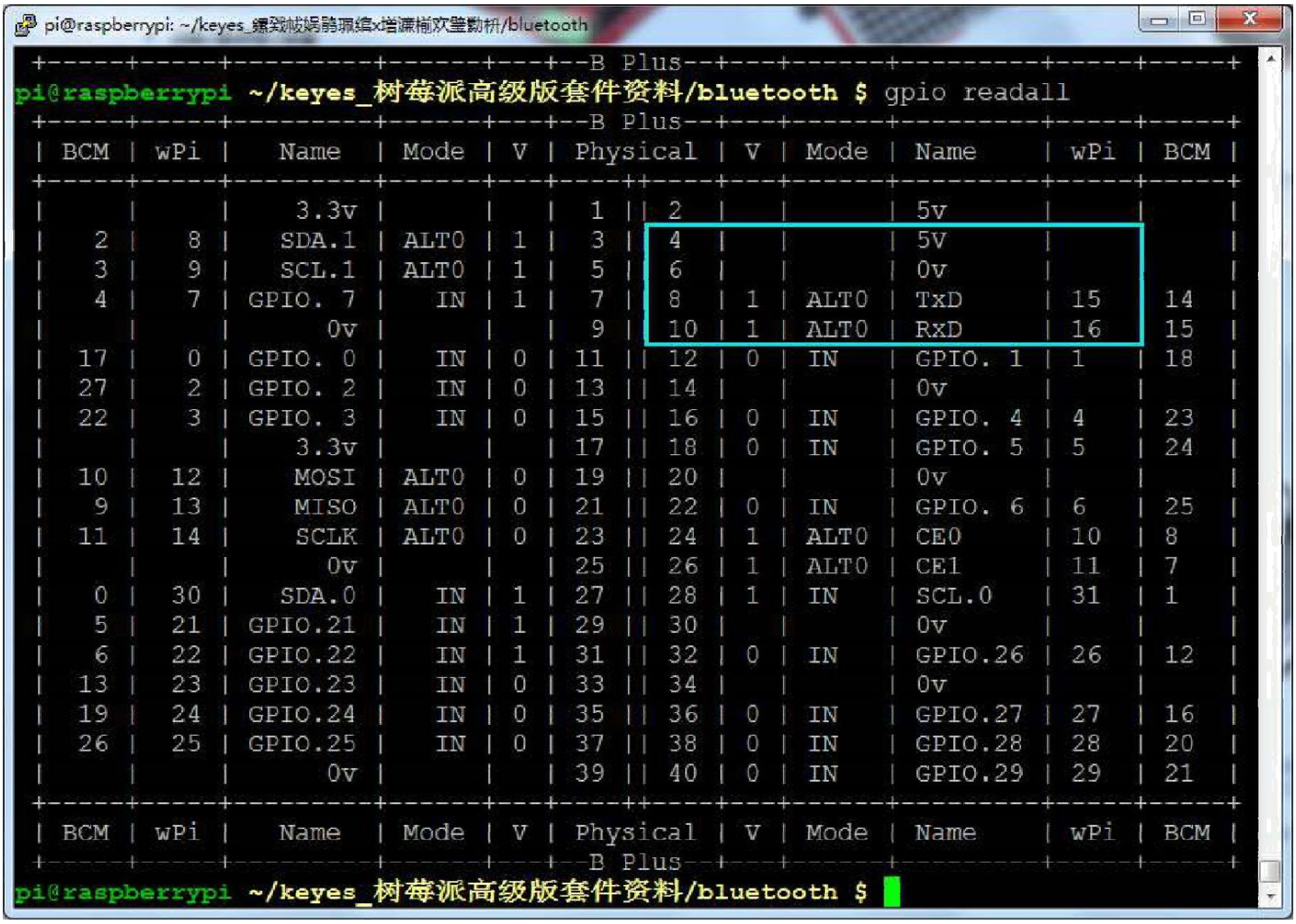


2 Project source code:



3 Project circuit connection

Before the experiment, your cellphone need to download a Bluetooth assistant APP as specified, with Android operating system. After nstallation, open this APP, and open cellphone Bluetooth function, search nearby Bluetooth device, find HC-06 bluetooth and click pair, the PIN number is 1234. After the successful pairing, you can begin the experiment. In the serial port, you can send any random character, the module will feedback the character to your cellphone.



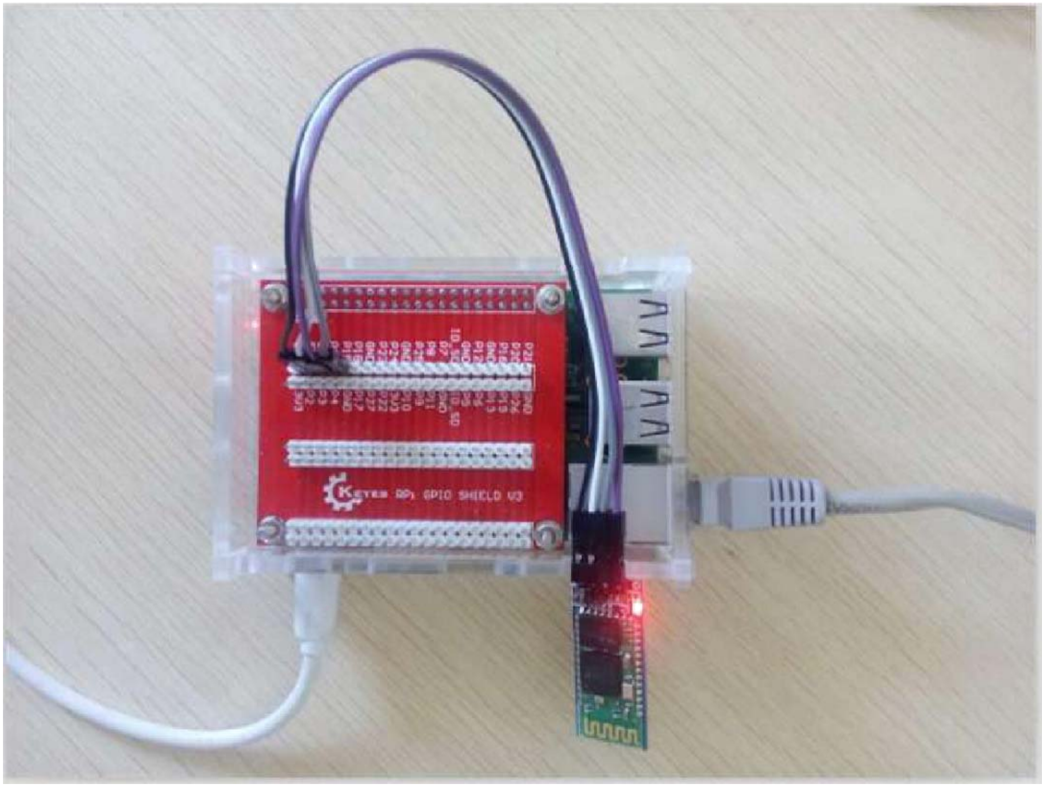
pi@raspberrypi ~/keyes_树莓派高级版套件资料/bluetooth $ gpio readall

+-----+-----+---------+------+---+--B Plus--+---+------+---------+-----+-----+

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	IN	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	0	IN	GPIO. 6	6	25
11	14	SCLK	ALT0	0	23	24	1	ALT0	CE0	10	8
		0v			25	26	1	ALT0	CE1	11	7
0	30	SDA.0	IN	1	27	28	1	IN	SCL.0	31	1
5	21	GPIO.21	IN	1	29	30			0v		
6	22	GPIO.22	IN	1	31	32	0	IN	GPIO.26	26	12
13	23	GPIO.23	IN	0	33	34			0v		
19	24	GPIO.24	IN	0	35	36	0	IN	GPIO.27	27	16
26	25	GPIO.25	IN	0	37	38	0	IN	GPIO.28	28	20
		0v			39	40	0	IN	GPIO.29	29	21
BCM	wPi	Name	Mode	V	Physical		V	Mode	Name	wPi	BCM

+-----+-----+---------+------+---+--B Plus--+---+------+---------+-----+-----+

pi@raspberrypi ~/keyes_树莓派高级版套件资料/bluetooth $



Connection diagram: