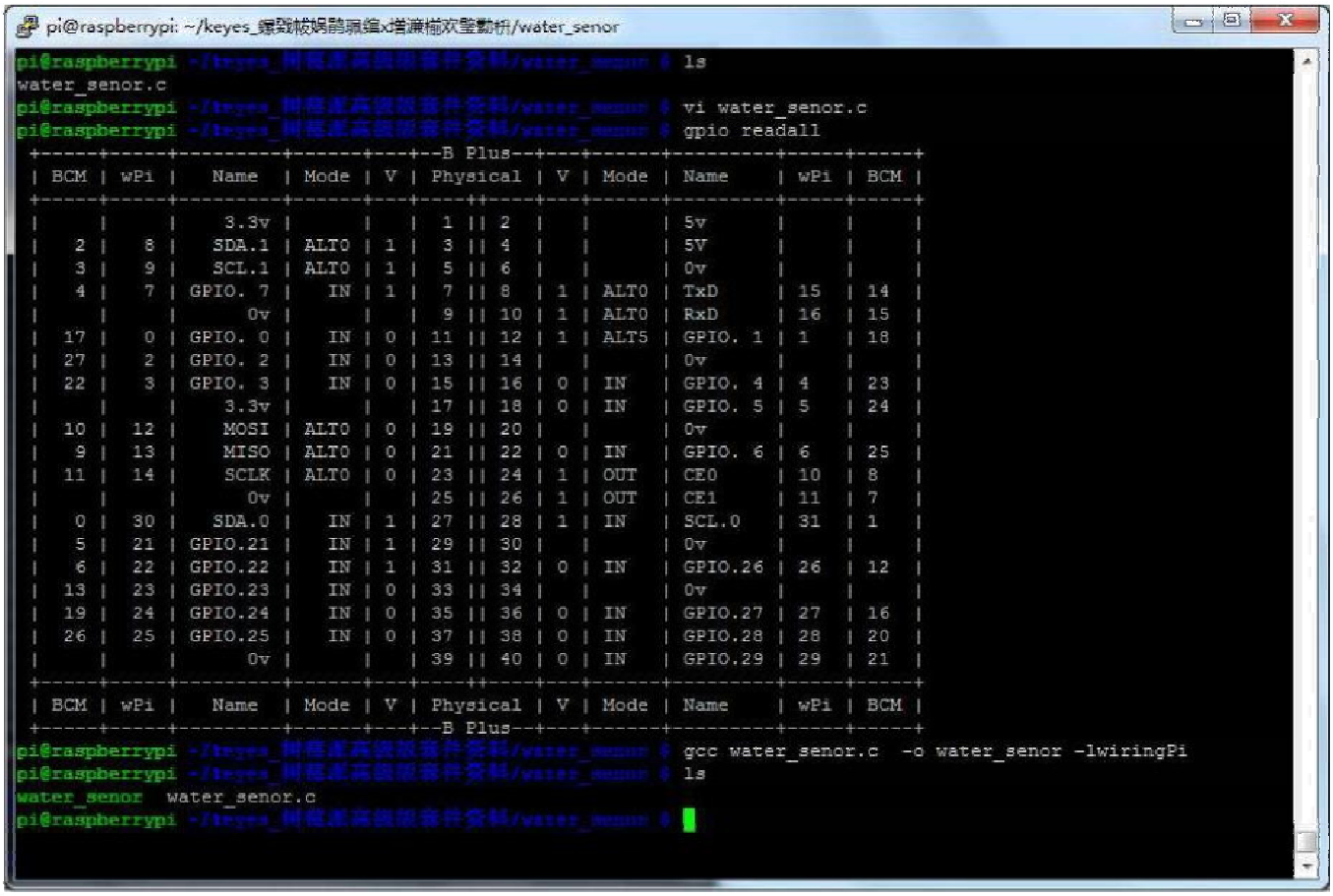
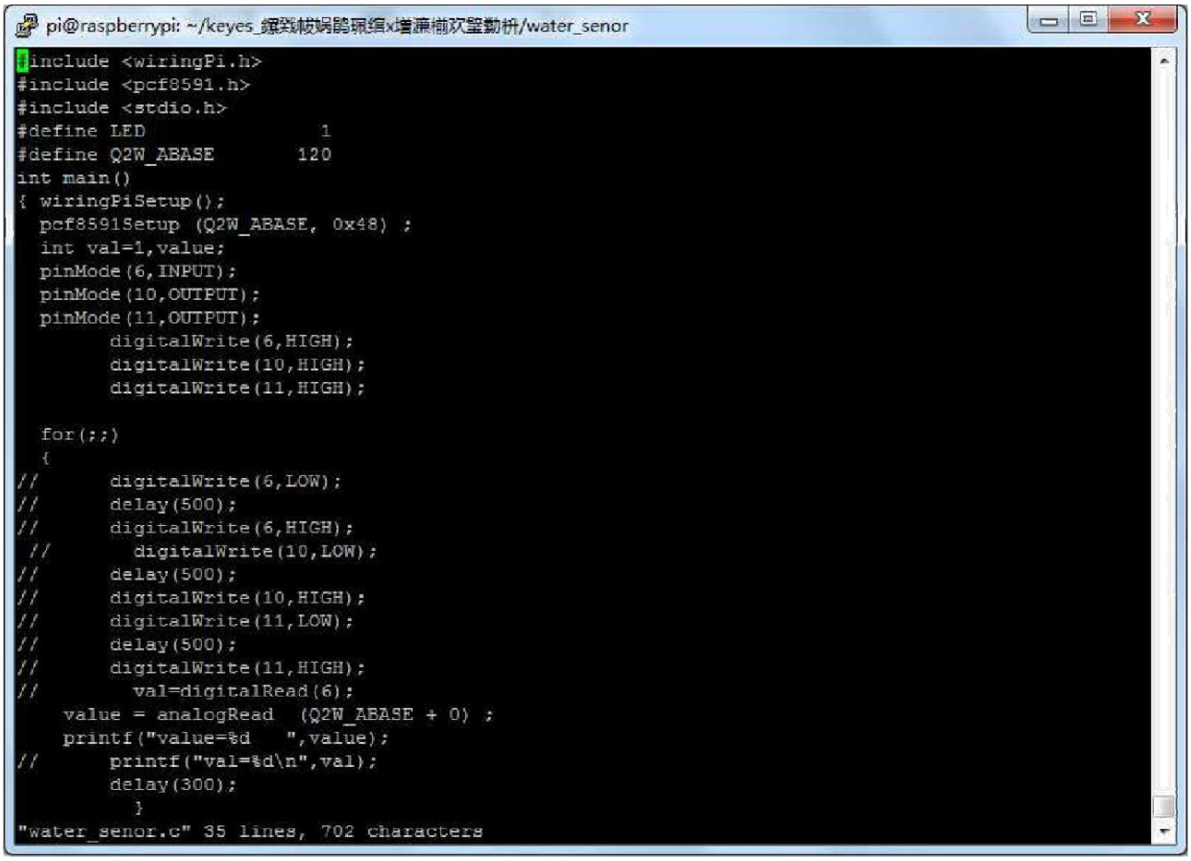
3 Water sensor module

1 Project process:

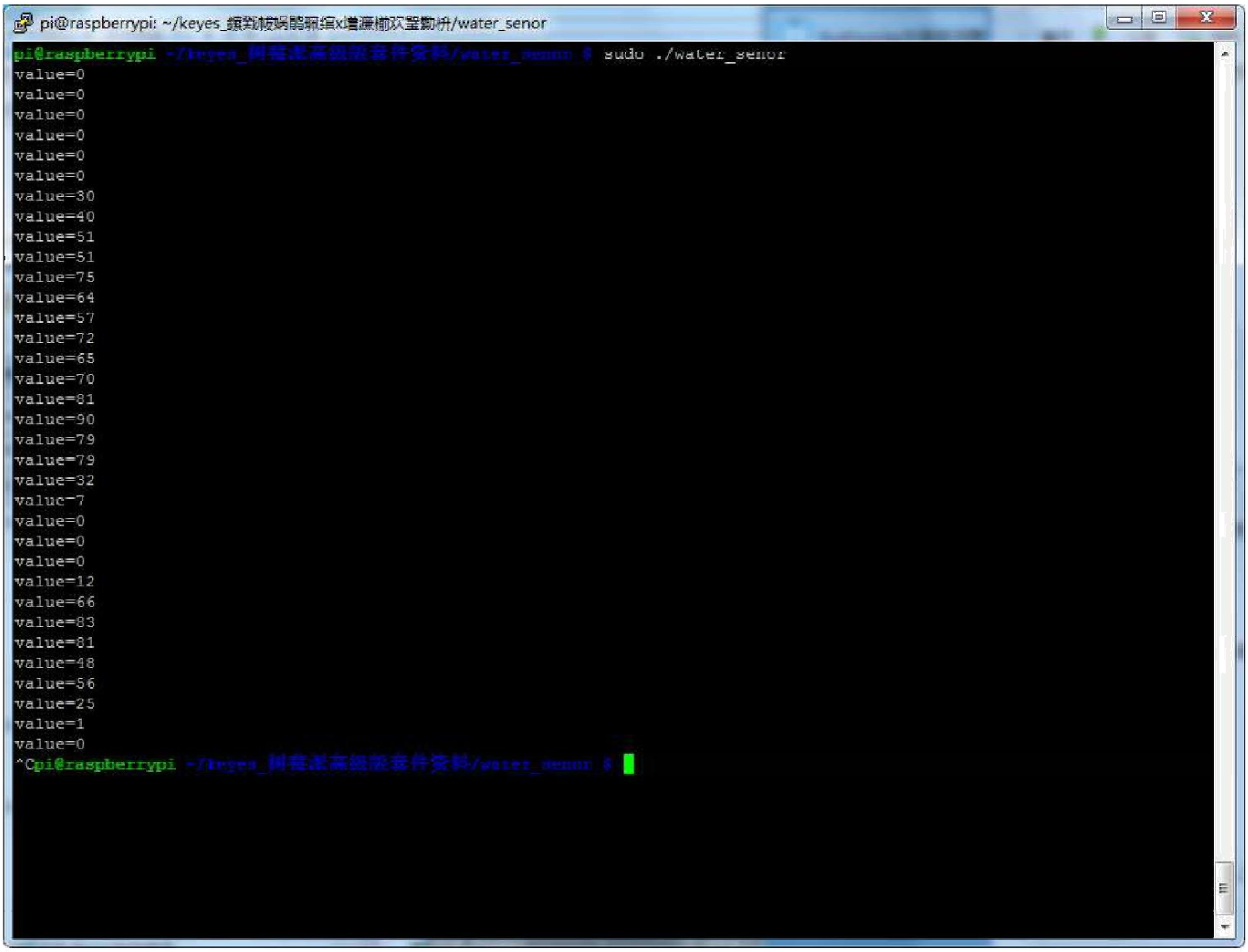


2 Project source code:



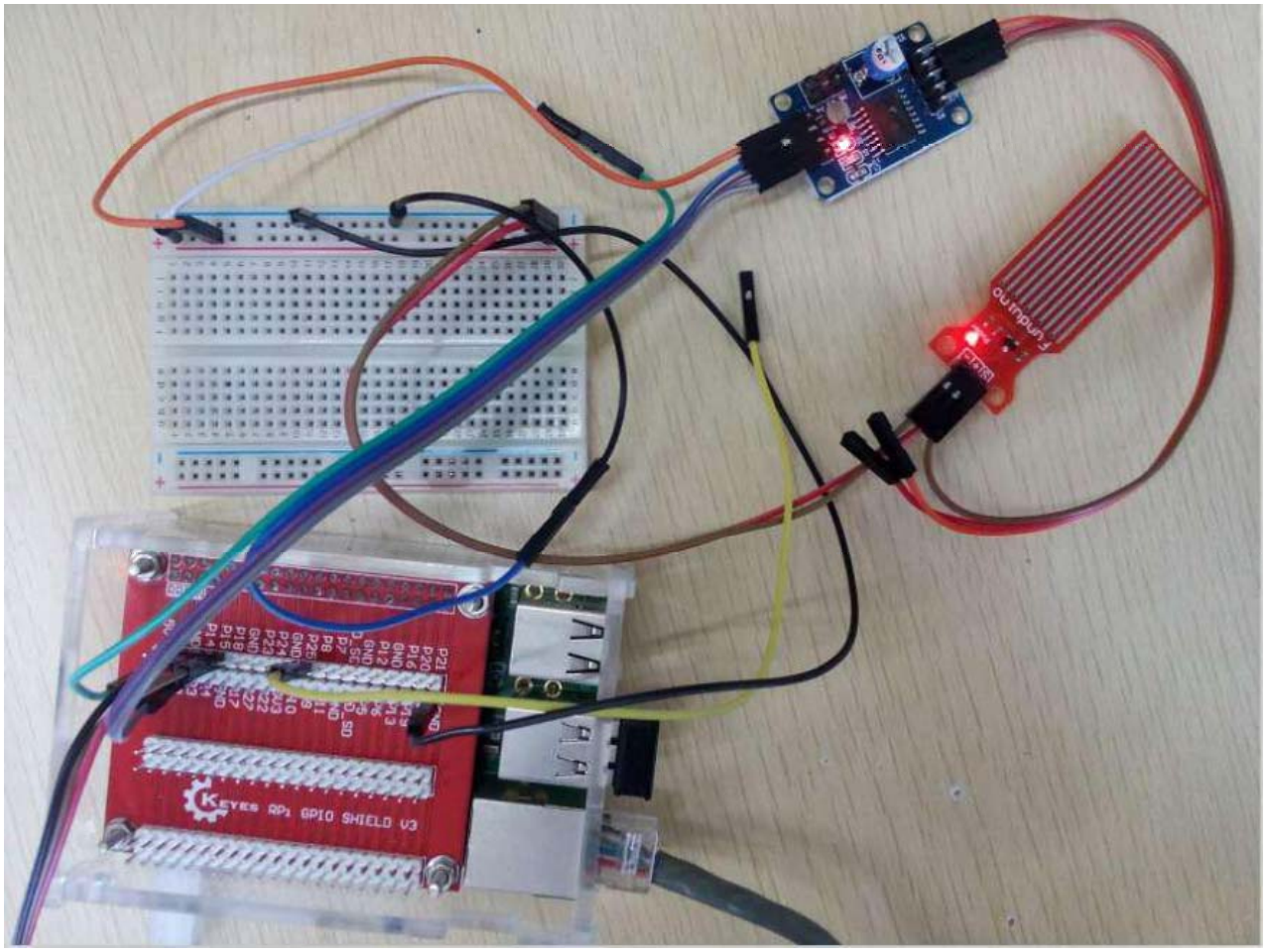
```
#include <wiringPi.h>
#include <pcf8591.h>
#include <stdio.h>
#define LED             1
#define Q2W_ABASE       120
int main()
{ wiringPiSetup();
  pcf8591Setup (Q2W_ABASE, 0x48) ;
  int val=1,value;
  pinMode(6,INPUT);
  pinMode(10,OUTPUT);
  pinMode(11,OUTPUT);
        digitalWrite(6,HIGH);
        digitalWrite(10,HIGH);
        digitalWrite(11,HIGH);

  for(;;)
  {
//      digitalWrite(6,LOW);
//      delay(500);
//      digitalWrite(6,HIGH);
 //       digitalWrite(10,LOW);
//      delay(500);
//      digitalWrite(10,HIGH);
//      digitalWrite(11,LOW);
//      delay(500);
//      digitalWrite(11,HIGH);
//        val=digitalRead(6);
    value = analogRead  (Q2W_ABASE + 0) ;
    printf("value=%d   ",value);
//      printf("val=%d\n",val);
        delay(300);
          }
"water_senor.c" 35 lines, 702 characters
```

3 Project result:



```
pi@raspberrypi ~/keyes_[illegible]/water_senor $ sudo ./water_senor
value=0
value=0
value=0
value=0
value=0
value=0
value=30
value=40
value=51
value=51
value=75
value=64
value=57
value=72
value=65
value=70
value=81
value=90
value=79
value=79
value=32
value=7
value=0
value=0
value=0
value=12
value=66
value=83
value=81
value=48
value=56
value=25
value=1
value=0
^Cpi@raspberrypi ~/keyes_[illegible]/water_senor $
```

3 Project circuit connection:


KEYES RPi GPIO SHIELD V3