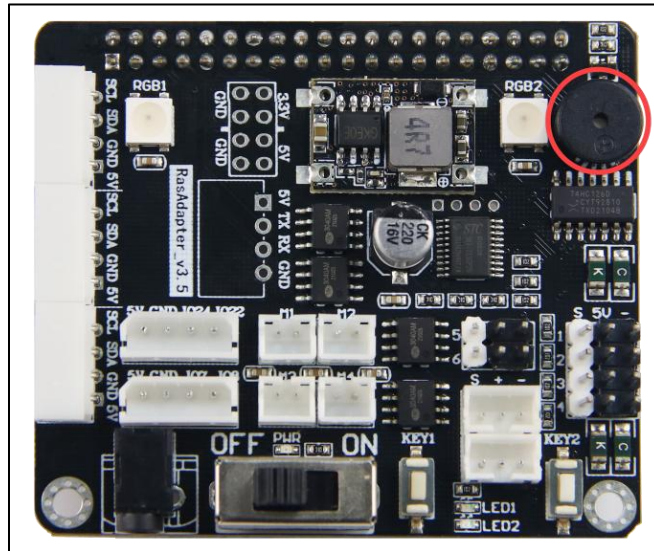# Lesson 3 Buzzer Control

## 1. Getting Ready

Raspberry Pi expansion board is equipped with a buzzer, as the figure shown below:



## 2. Working Principle

Through setting the low level and high level of buzzer, it can make sound after powering up.

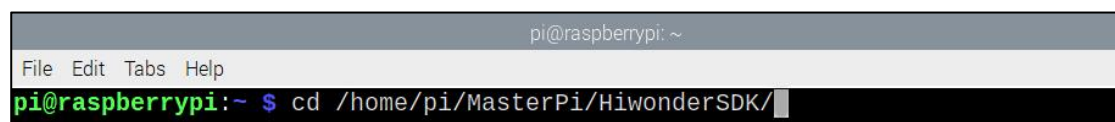The source code of program is located in: **/home/pi/MasterPi/HiwonderSDK/BuzzerControlDemo.py**

```
12   The following command all need to be used in LX terminal. LX
13   ------------------------------------------------------------
14   Usage:
15       sudo python3 BuzzerControlDemo.py
16   ------------------------------------------------------------
17   Version: --V1.0  2020/08/12
18   ------------------------------------------------------------
19   ''')
20
21   Board.setBuzzer(0) # Close
22
23   Board.setBuzzer(1) # Open
24   time.sleep(0.1) # delay
25   Board.setBuzzer(0) # Close
26
27   time.sleep(1) # Delay
28
29   Board.setBuzzer(1)
30   time.sleep(0.5)
31   Board.setBuzzer(0)
```

## 3. Operation Steps

1) Click  or press "Ctrl+Alt+T" to open LX terminal.



2) Enter "cd /home/pi/MasterPi/HiwonderSDK/" command in LX terminal and press "Enter" to come to the directory of game programs.



3) Then, enter "sudo python3 BuzzerControlDemo.py" command and press "Enter" to start game.

```
pi@raspberrypi:~ $ cd /home/pi/MasterPi/HiwonderSDK/
pi@raspberrypi:~/MasterPi/HiwonderSDK $ sudo python3 BuzzerControlDemo.py
```

4) If want to exit the program, you can press "Ctrl+C".

## 4. Project Outcome

After starting the program, buzzer will sound a short beep, followed by a long beep for half a second, and so on for three times.