Button

Overview

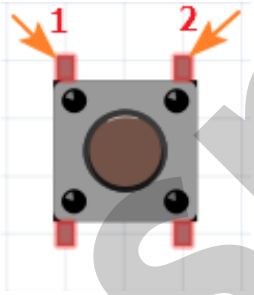
This lesson will teach you how to use button.

Specification

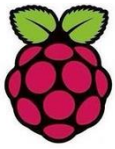
Size: 6 x 6 x 5mm
Temperature: -30 ~ +70 Centigrade

Pin definition

It is the definition of Button pin：



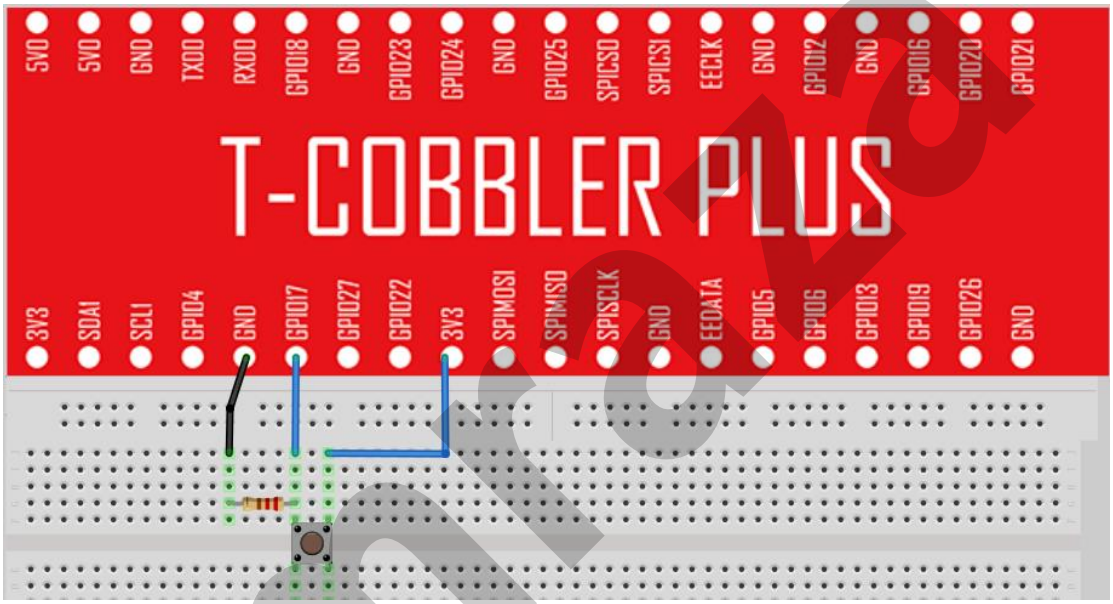
Hardware required

Material diagram	Material name	Number
	Button	1
	10KΩ resistor	1
	Raspberry Pi Board	1
	T-Cobbler Plus	1

---Designed by Smraza Keen

	40P GPIO Cable	1
	Breadboard	1
	Jumper wires	Several

Connection diagram



Connection

RPI	Button
GPIO17	1
3V3	2

Sample code

Note: sample code under the **Sample code** folder

```
#include <wiringPi.h>
#include <stdio.h>
#define button 0
int val;
int main(void)
{
   printf( "Welcome to Smraza\n");
   printf( "Raspberry button_test program\n" );
   printf( "Press Ctrl+C to exit\n" );
   wiringPiSetup();
   pinMode (button, INPUT) ;
```

```
    while(1)
    {
        val=digitalRead(button);
        if(val==HIGH)
        {
                delay(100);
                if(val==HIGH)
            printf( "button on\n");
        }
        else
        {
            printf( "button off\n");
        }
        delay(200);
    }
}
```

Compiling: gcc -Wall -o button button.c -lwiringPi

Run: sudo ./button

Tips: Press “Ctrl+C” to exit

Application effect

When you press the button, the screen will show the state of the button.