

!Note:

The maximum continuous input and output voltage of the Raspberry Pi's GPIO pin is 3.3V. Do not connect it directly with other electronic components, otherwise it will damage the Raspberry Pi.

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Step 1:Create and open read-gpio.c file
nano read gpio.c
Step 2: Writing code
#include<stdio.h>
                           //Import wiringPi.h library
#include<wiringPi.h>
#define Output Pin 0 //Define Output Pin as pin 0 of wPi, corresponding to GP
100
#define Input Pin 1 //Define Input Pin as pin1 of wPi, corresponding to G
PIO1
int main()
{
       printf("This is an example of a raspberry PI pin reading\n");
      wiringPiSetup();
                                         //Initialize wiringPi
       pinMode(Output Pin,OUTPUT);
                                         //Set Output_Pin to output mode
       pinMode(Input Pin,INPUT);
                                         //Set Output Pin to input mode
       printf("Set Output Pin : H\n");
       digitalWrite(Output Pin,HIGH);
                                         //set Output Pin output high level
                                         //delay 200ms
       delay(200);
       printf("Input Pin : %d\n",digitalRead(Input Pin)); //Print Input_Pin value
                                                //delay 2000ms
      delay(2000);
       printf("Set Output Pin: L\n");
       digitalWrite(Output Pin,LOW);
                                         //set Output_Pin output low level
       delay(200);
       printf("Input Pin : %d\n",digitalRead(Input Pin)); //Print Input Pin value
      while(1)
      {
      return 0;
After writing, press Ctrl + X to exit this file.
The system will prompt you whether you need to save, press Y to save and exi
t.
Step 3: Compile this .c file.
```



gcc read_gpio.c -o read_gpio -lwiringPi



Step 4: Connect GPIO0 and GPIO1 by Dupont line.

Step 5: Run this code
./read_gpio

```
pi@raspberrypi:~/work/example/C $ gcc read_gpio.c -o read_gpio -lwiringPi
pi@raspberrypi:~/work/example/C $ ./read_gpio
This is an example of a raspberry PI pin reading
Set Output_Pin : H
Input_Pin : 1
Set Output_Pin: L
Input Pin : 0
```

We can see that the InputPin pin changes with the output of OutputPin.