

Lab1_P2 light up commandline

Haoxiang Zhang

```
# turn red light on
# the BCM of Red light is 2
```

Method-1:

```
$ echo 2 > /sys/class/gpio/export                // select port number
$ echo out > /sys/class/gpio/gpio2/direction      // set port as output
$ echo 1 > /sys/class/gpio/gpio2/value            // set port as HIGH (turn on)
$ echo 0 > /sys/class/gpio/gpio2/value            // set port as LOW (turn off)
```

Method-2:

in command line:

using wiringPi numbering:

```
gpio mode <pin> in/out          // set wiringPi pin as input or output
gpio write <pin> 1/0             // set wiringPi pin as 1(HIGH) or 0(LOW)
```

using BCM_GPIO numbering:

```
gpio export <pin> in/out        // set BCM_GPIO pin as input or output
gpio -g write <pin> 1/0         // set BCM_GPIO pin as 1(HIGH) or 0(LOW)
```

read the value of button:

```
gpio -g read 16                 // read the value of pin16(button1)
```

when using command line without pressing button, the value is 0

when using command line with pressing button, the value is 1