#### Use python control LED on raspberry pie

#### **Install RPi.GPIO**

sudo apt-get update

sudo apt-get install python-dev python-rpi.gpio

**Preparation of modules**

Build a led.py file:

cd

mdir

GPIOcd

GPIOnano

led.py

**Python cod：**

import RPi.GPIO as GPIO

import time

channels = [16,18,22,24,26,19,21,23]

def init():

GPIO.setmode(GPIO.BOARD)

for x in channels:

GPIO.setup(x,GPIO.OUT)

pass

def on(i):

GPIO.output(channels[i], GPIO.HIGH)

def off(i):

GPIO.output(channels[i], GPIO.LOW)

def ctrl(data):

for i in channels:

GPIO.output(i, data & 0x1)

data = data >> 1

pass

def test():

for i in xrange(512):

ctrl(i)

time.sleep(0.1)

def clean():

GPIO.cleanup()

Call module

**Test code:**

**Build a test.py:**

import led

led.init()

led.test()

led.clean（）

Or Direct operation in python shell