import RPi.GPIO as GPIO

from smbus import SMBus

import time

GPIO.setmode(GPIO.BOARD)

GPIO.setup(7, GPIO.OUT)

led=[15, 16, 18, 19, 21, 22, 23, 24]

for i in range(8):

GPIO.setup(led[i],GPIO.OUT)

bus = SMBus(1)

bus.write\_byte(0x48,0)

last\_reading=-1

p=GPIO.PWM(7,100)

p.start(0)

while(0==0):

reading = bus.read\_byte(0x48)

if(reading != last\_reading):

write=(255/1023)\*reading

print('output:'+str(reading))

last\_reading=reading

if(reading < 27):

p.ChangeDutyCycle(0)

GPIO.output(led[0], GPIO.HIGH)

time.sleep(0.06)

if(reading > 30):

p.ChangeDutyCycle(20)

GPIO.output(led[1], GPIO.HIGH)

GPIO.output(led[0], GPIO.HIGH)

time.sleep(0.06)

if(reading > 35):

p.ChangeDutyCycle(30)

GPIO.output(led[2], GPIO.HIGH)

time.sleep(0.06)

if(reading > 40):

p.ChangeDutyCycle(40)

GPIO.output(led[3], GPIO.HIGH)

time.sleep(0.06)

if(reading > 45):

p.ChangeDutyCycle(50)

GPIO.output(led[4], GPIO.HIGH)

time.sleep(0.06)

if(reading > 50):

p.ChangeDutyCycle(65)

GPIO.output(led[5], GPIO.HIGH)

time.sleep(0.06)

if(reading > 65):

p.ChangeDutyCycle(85)

GPIO.output(led[6], GPIO.HIGH)

GPIO.output(led[7], GPIO.HIGH)

time.sleep(0.06)

else:

GPIO.output(led[6], GPIO.LOW)

GPIO.output(led[7], GPIO.LOW)

GPIO.output(led[0], GPIO.LOW)

GPIO.output(led[1], GPIO.LOW)

GPIO.output(led[2], GPIO.LOW)

GPIO.output(led[3], GPIO.LOW)

GPIO.output(led[4], GPIO.LOW)

GPIO.output(led[5], GPIO.LOW)

time.sleep(0.06)

GPIO.setwarnings(False)