```
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
#     p.ChangeDutyCycle(0)
      if(reading < 27):
                  p.ChangeDutyCycle(0)
                  GPIO.output(led[0], GPIO.HIGH)
                  time.sleep(0.05)

      if(reading > 30):
                  p.ChangeDutyCycle(20)
                  GPIO.output(led[1], GPIO.HIGH)
                  GPIO.output(led[0], GPIO.HIGH)
                  time.sleep(0.05)

      if(reading > 35):
                  p.ChangeDutyCycle(30)
                  GPIO.output(led[2], GPIO.HIGH)
                  time.sleep(0.05)

      if(reading > 40):
                  p.ChangeDutyCycle(40)
                  GPIO.output(led[3], GPIO.HIGH)
                  time.sleep(0.05)

      if(reading > 45):
                  p.ChangeDutyCycle(50)
                  GPIO.output(led[4], GPIO.HIGH)
                  time.sleep(0.05)

      if(reading > 50):
                  p.ChangeDutyCycle(65)
                  GPIO.output(led[5], GPIO.HIGH)
                  time.sleep(0.05)
```

```
if(reading > 65):
            p.ChangeDutyCycle(85)
            GPIO.output(led[6], GPIO.HIGH)
            GPIO.output(led[7], GPIO.HIGH)
            time.sleep(0.05)
  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(0.05)
```