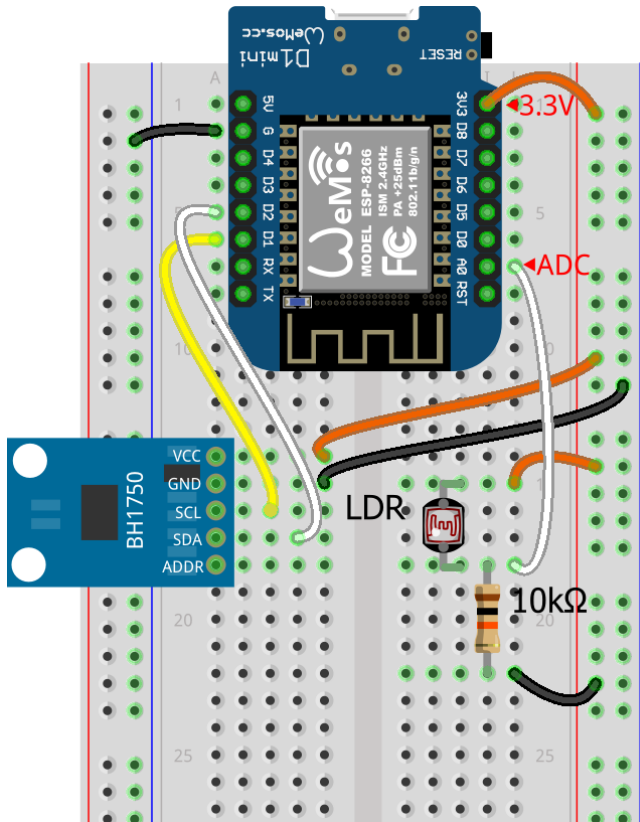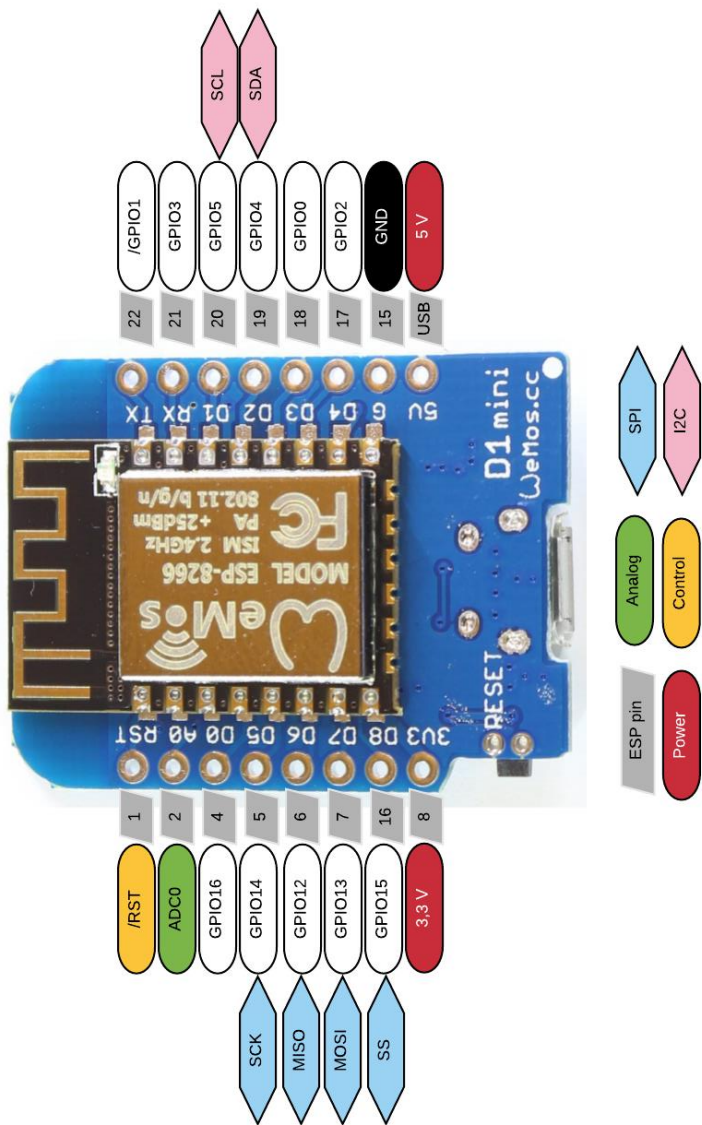# Sensor BH1750+LDR

```python
1   from machine import Pin, I2C, ADC
2   from time import sleep
3
4   from sensor_manager import Sensor_BH1750FVI
5   from board_manager import D1, D2, A0
6
7   i2c = I2C(scl=Pin(D1), sda=Pin(D2))
8   sensor = Sensor_ BH1750FVI(i2c=i2c, address=0x23)
9
10  adc = ADC(0) # Analog to Digital Conversion [0 - 1024]
11
12  pause = 1
13  while True:
14    sensor.read()
15    values = sensor.values
16
17    analog = adc.read()
18
19    print(values)
20    print(analog)
21
22    sleep(pause)
23
24
25
```
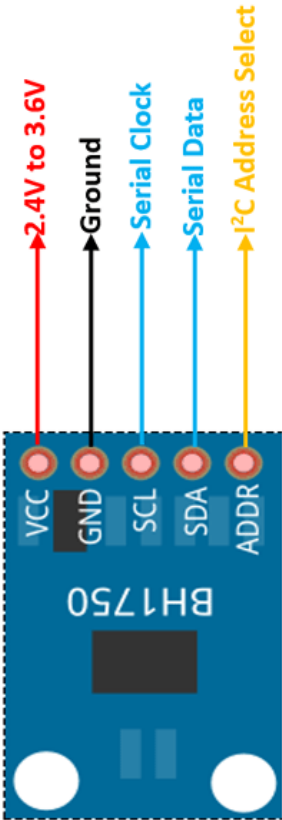
https://micropython.org/

WEMOS D1 MINI – PINOUT

SCL
SDA

/GPIO1 — 22
GPIO3 — 21
GPIO5 — 20
GPIO4 — 19
GPIO0 — 18
GPIO2 — 17
GND — 15
5 V — USB

TX RX D1 D2 D3 D4 5V

D1 mini
WeMos.cc

MODEL ESP-8266
ISM 2.4GHz
PA +25dBm
802.11 b/g/n

RST D0 D5 D6 D7 D8 3V3

/RST — 1
ADC0 — 2
GPIO16 — 4
GPIO14 — 5
GPIO12 — 6
GPIO13 — 7
GPIO15 — 16
3,3 V — 8

SCK
MISO
MOSI
SS

SPI
I2C
Analog
Control
ESP pin
Power

Sensor BH1750

2.4V to 3.6V
Ground
Serial Clock
Serial Data
I²C Address Select

VCC
GND
SCL
SDA
ADDR

BH1750

LDR

VCC: 5V | 3.3 V

LDR

$R_1 = 10k\Omega$

MCU

Analog
Input

Voltage
Output