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1 # Originally from https://github.com/DFRobot/DFRobot_DHT20/tree/master/python/raspberrypi
2 # Modified by https://github.com/cjee21/ on 16 January 2023
3
4 from time import strftime, sleep
5
6 from DFRobot_DHT20 import DFRobot_DHT20
7
8 # The first parameter is to select i2c0 or i2c1
9 # The second parameter is the i2c device address
10 I2C_BUS = 0x01 # default use I2C1 bus
11 I2C_ADDRESS = 0x38 # default I2C device address
12
13 dht20 = DFRobot_DHT20(I2C_BUS ,I2C_ADDRESS)
14
15 # Initialize sensor
16 if not dht20.begin():
17     print("DHT20 sensor initialization failed")
18 else:
19     while True:
20         # Read ambient temperature and relative humidity and print them to terminal
21         print(strftime("%Y-%m-%d %H:%M:%S %Z"))
22         T_celcius, humidity, crc_error = dht20.get_temperature_and_humidity()
23         if crc_error:
24             print("CRC : Error\n")
25         else:
26             T_fahrenheit = T_celcius*9/5 + 32
27             print("Temperature : %f\u00b0C / %f\u00b0F" %(T_celcius, T_fahrenheit))
28             print("Relative Humidity : %f %" %humidity)
29             print("CRC : OK\n")
30             sleep(5)
31
```