

//..... python script to send the random sensor data of Hazardous gas levels, temperature, humidity, pressure, etc.....//

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from machine import Pin, I2C
from time import sleep
from bme680 import *

# ESP32 - Pin assignment
i2c = I2C(scl=Pin(22), sda=Pin(21))
# ESP8266 - Pin assignment
#i2c = I2C(scl=Pin(5), sda=Pin(4))

bme = BME680_I2C(i2c=i2c)

while True:
    try:
        temp = str(round(bme.temperature, 2)) + ' C'
        #temp = (bme.temperature) * (9/5) + 32
        #temp = str(round(temp, 2)) + 'F'

        hum = str(round(bme.humidity, 2)) + ' %'

        pres = str(round(bme.pressure, 2)) + ' hPa'

        gas = str(round(bme.gas/1000, 2)) + ' KOhms'
        print('Temperature:', temp)
        print('Humidity:', hum)
        print('Pressure:', pres)
        print('Gas:', gas)
        print('-----')
    except OSError as e:
        print('Failed to read sensor.')
    sleep(5)
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