**IOT\_PHASE3**

**NOISE POLLUTION MONITORING**

**CODE:**

from machine import Pin, ADC

from time import sleep

import math

micc = ADC(Pin(2))

micc.atten(ADC.ATTN\_11DB)

calib\_cons = 1.0

threshold = 80

while True:

mic\_level = micc.read()

mic\_level\_db = 20 \* math.log10(mic\_level / calib\_cons)

if mic\_level\_db > threshold:

print("Warning: Noise pollution!!! ")

print("dB: {:.2f}".format(mic\_level\_db))

sleep(0.3)