Noise pollution monitoring

-Internet of things

main.py

```
'''

from machine import Pin, ADC

from time import sleep


pot = ADC(Pin(2))

pot.atten(ADC.ATTN_11DB)       #Full range: 3.3v



#ADC.ATTN_0DB: Maximum voltage of 1.2V

#ADC.ATTN_2_5DB: Maximum voltage of 1.5V

#ADC.ATTN_6DB: Maximum voltage of 2.0V

#ADC.ATTN_11DB: Maximum voltage of 3.3V



while True:

  pot_value = pot.read()

  print(pot_value)

  sleep(0.1)
'''

import machine, time

a = machine.ADC(machine.Pin(32))

while True:

    sample = a.read()  # we want 16 bits, a.read() returns 10 bits

    print(sample)

    time.sleep(1/44100
```

diagram.json:

```
{
 "version": 1,
 "author": "Gokul Raja",
 "editor": "wokwi",
 "parts": [
  {
   "type": "wokwi-esp32-devkit-v1",
   "id": "esp",
   "top": -52.9,
   "left": 62.2,
   "attrs": {"env": "micropython-20231005-v1.21.0"}
  },
  {"type": "wokwi-microphone", "id": "mic", "top": -16.98, "left": 263.79, "attrs": {}}
 ],
 "connections": [
  ["esp:TX0", "$serialMonitor:RX", "", []],
  ["esp:RX0", "$serialMonitor:TX", "", []],
  ["mic:1", "esp:D2", "green", ["v0"]],
  ["mic:2", "esp:GND.1", "green", ["v0"]]
 ],
 "serialMonitor": {"display": "plotter"},
 "dependencies": {}
}
```

Wokwi platform address:

https://wokwi.com/projects/378838945740627969