|  |  |
| --- | --- |
|  | import datetime as dt |
|  | import time |
|  | import board |
|  | import busio |
|  | from anyleaf import PhSensor, OnBoard |
|  |  |
|  | LOOP\_DELAY = 60 \* 5 # Time to sleep, in seconds. |
|  | LOG\_FILENAME = "ph\_readings.csv" |
|  |  |
|  |  |
|  | def main(): |
|  | i2c = busio.I2C(board.SCL, board.SDA) |
|  | ph\_sensor = PhSensor(i2c, LOOP\_DELAY) |
|  |  |
|  | while True: |
|  | ph = ph\_sensor.read(OnBoard()) |
|  | timestamp = dt.datetime.now() |
|  |  |
|  | # Open our log file in append-line mode. This way new lines can be |
|  | # written without overwriting existing ones. |
|  | with open(LOG\_FILENAME, 'a') as f: |
|  | # Write the timestamp to the first column, and pH to the second. |
|  | f.write(f"{timestamp.isoformat()},{round(ph, 2)}\n") |
|  |  |
|  | # Wait for 5 minutes before taking and logging another reading. |
|  | time.sleep(LOOP\_DELAY) |
|  |  |
|  |  |
|  | if \_\_name\_\_ == "\_\_main\_\_": |
|  | main() |