- Python 설치

sudo apt-get update

sudo apt-get upgrade

sudo apt-get install python3-pip

https://www.sharedit.co.kr/posts/8407?fbclid=IwAR2

NOSplizw-emH4VMPeZFCidl-

Nut026EFiWAgDPwVg\_2LIXBmG6TOcVqU

https://steemit.com/kr/@codingart/4-3-adafruit-dht11-3?fbclid=IwAR2BXuwqsvKGY1Jf143EAmSzNv\_D6-

Ctj1VI11Q9wuvayzJekd4RL2eTpco

sudo python3 -m pip install --upgrade pip setuptools wheel

sudo pip3 install Adafruit\_DHT

git clone <a href="https://github.com/adafruit/Adafruit\_Python\_DHT.git">https://github.com/adafruit/Adafruit\_Python\_DHT.git</a>

cd Adafruit\_Python\_DHT

sudo apt-get update

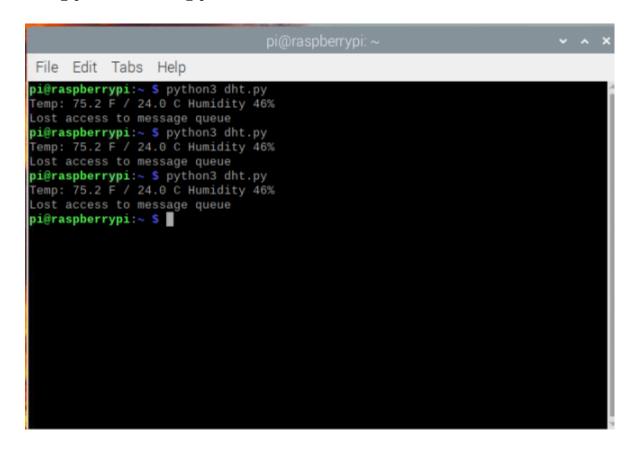
sudo apt-get install build-essential python-dev python-openssl

sudo python setup.py install

- 파일 생성 후 작동

sudo nano dht.py

- -> 코드 작성
- -> Ctrl+s -> ctrl+x
- -> python dht.py로 실행



import time import board import adafruit\_dht

dhtDevice = adafruit\_dht.DHT11(board.D4)

t = dhtDevice.temperature

f = t \* (9/5) + 32

h = dhtDevice.humidity

print("Temp: {:.1f} F / {:.1f} C Humidity {}%".format(f,t,h))

```
import datetime
import adafruit_dht
import requests
import board
dhtDevice = adafruit_dht.DHT11(board.D4)
temp = dhtDevice.temperature
hum = dhtDevice.humidity
print("Time: {0:%Y-%m-%d %H:%M:%S} Temperature = {1:0.1f}*C Humidity =
{2:0.1f}%".format(datetime.datetime.now(), temp, hum))
if hum is not None and temp is not None:
   params = {'dev':1, 't':temp, 'h':hum}
   r = requests.get(url='http://xxx.co.kr/raspberyPl/setDevInfo.php', params=params)
   print(r.status_code)
```

## 오류 1 : py파일 작동 시 아래와 같은 오류

https://github.com/adafruit/Adafruit\_CircuitPython\_DHT/issues/28

해결방안 : sudo apt-get install libgpiod2

```
>>> dht = dht11.DHT11Sensor()
/home/pi/sensor-node-aqs/venv/lib/python3.5/site-packages/adafruit_blinka/microcontroller/bcm283x/pulseio/libgpiod_pulsein: error while loading shared libraries: libgpio
d.so.2: cannot open shared object file: No such file or directory
Traceback (most recent call last):
    File "stddin>", line 1, in <module>
    File "home/pi/sensor-node-aqs/src/sensornode/sensingmodule/sensors/dht11.py", line 8, in __init__
    self._dht = adafruit_dht.DHT11(board.D4)
    File "/home/pi/sensor-node-aqs/venv/lib/python3.5/site-packages/adafruit_dht.py", line 246, in __init__
    super().__init__(True, pin, 18000)
    File "/home/pi/sensor-node-aqs/venv/lib/python3.5/site-packages/adafruit_dht.py", line 66, in __init__
    self.pulse_in = PulseIn(self._pin, 81, True)
    File "/home/pi/sensor-node-aqs/venv/lib/python3.5/site-packages/adafruit_blinka/microcontroller/bcm283x/pulseio/PulseIn.py", line 64, in __init__
    message = self._wait_receive_msg()
    File "/home/pi/sensor-node-aqs/venv/lib/python3.5/site-packages/adafruit_blinka/microcontroller/bcm283x/pulseio/PulseIn.py", line 80, in _wait_receive_msg
    raise RuntimeError("Timed out waiting for PulseIn message")
RuntimeError: Timed out waiting for PulseIn message")
```

## 오류 2 : py파일 작동 후 재동작 시 unable 오류

https://forums.adafruit.com/viewtopic.php?t=169472

해결방안: pgrep libgpiod\_pulsein -> killall libgpiod pulsein pi@raspberrypi:~ \$ killall libgpiod\_pulsein Shell rytnon 3.9.2 (/usr/pin/pytnon3) >>> %cd /home/pi >>> %Run dht.py Temp: 75.2 F / 24.0 C Humidity 47% >>> %Run dht.py Unable to set line 18 to input Python 3.9.2 (/usr/bin/python3) >>> %Run cron dht.py Unable to set line 4 to input Python 3.9.2 (/usr/bin/python3) >>> %Run cron dht.py Time : 2022-09-27 00:05:12 Temperature = 24.0\*C Humidity = 46.0%

## 파이썬 오류 시 참고 자료

https://bradheo.tistory.com/entry/%EB%9D%BC%EC%A6 %88%EB%B2%A0%EB%A6%AC%ED%8C%8C%EC%9D%B 4-%EC%98%A8%EC%8A%B5%EB%8F%84- %EC%84%BC%EC%84%9Cdht11

https://stackoverflow.com/questions/64093805/adafruit-python-dht-raspberry-pi-in-get-platform-runtimeerror-unknown-platf

https://gorakgarak.tistory.com/686

https://forums.adafruit.com/viewtopic.php?p=688382&sid=2e3352f4d9928c57fd3fdeacd07bff6b#p688382

https://m.blog.naver.com/PostView.naver?isHttpsRedirect =true&blogId=top60331&logNo=221282025014