

DEVELOP THE PYTHON CODE

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Project Name: Gas leakage monitoring and alerting system for industries

```
import time
import Adafruit_DHT

from Adafruit_IO import Client, Feed

DHT_READ_TIMEOUT = 5
DHT_DATA_PIN = 26
ADAFRUIT_IO_KEY = 'YOUR_AIO_KEY'
ADAFRUIT_IO_USERNAME = 'YOUR_AIO_USERNAME'
aio = Client(ADAFRUIT_IO_USERNAME, ADAFRUIT_IO_KEY)

temperature_feed = aio.feeds('temperature')
humidity_feed = aio.feeds('humidity')

dht22_sensor = Adafruit_DHT.DHT22

while True:
    humidity, temperature = Adafruit_DHT.read_retry(dht22_sensor, DHT_DATA_PIN)
    if humidity is not None and temperature is not None:
        print('Temp={0:0.1f}*C Humidity={1:0.1f}%'.format(temperature, humidity))
        temperature = '%.2f'%(temperature)
```

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humidity = '%.2f'%(humidity)
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aio.send(temperature_feed.key, str(temperature))
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```
aio.send(humidity_feed.key, str(humidity))
```

```
else:
```

```
print('Failed to get DHT22 Reading, trying again in ', DHT_READ_TIMEOUT,  
'seconds')
```

```
time.sleep(DHT_READ_TIMEOUT)
```