

## PYTHON CODE FOR DETECT THE TEMPERATURE AND HUMIDITY WITH ALARAM

```
'temp_humidity.py'
```

```
=====
```

```
# import standard python modules.
```

```
import time
```

```
# Delay in-between sensor readings, in seconds.
```

```
DHT_READ_TIMEOUT = 5
```

```
# Pin connected to DHT22 data pin
```

```
DHT_DATA_PIN = 26
```

```
ADAFRUIT_IO_KEY = 'YOUR_AIO_KEY'
```

```
ADAFRUIT_IO_USERNAME = 'YOUR_AIO_USERNAME'
```

```
# Create an instance of the REST client.
```

```
aio = Client(ADAFRUIT_IO_USERNAME, ADAFRUIT_IO_KEY)
```

```
# Set up Adafruit IO Feeds.
```

```
temperature_feed = aio.feeds('temperature')
```

```
humidity_feed = aio.feeds('humidity')
```

```
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))
```

```
# Send humidity and temperature feeds to Adafruit IO
```

```
    temperature = '%.2f'%(temperature)
```

```
    humidity = '%.2f'%(humidity)
```

```
aio.send(temperature_feed.key, str(temperature))
```

```
aio.send(humidity_feed.key, str(humidity))
```

```
else:
```

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

```
# Timeout to avoid flooding Adafruit IO
```

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