

BATCH: B5-5M1E

# ASSIGNMENT-2

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**TOPIC: PYTHON SCRIPT FOR HUMIDITY AND TEMPERATURE DETECTION ALARM**

## PYTHON SCRIPT

```
import time
import Adafruit_DHT
from Adafruit_IO import Client, Feed
DHT_READ_TIMEOUT = 5
DHT_DATA_PIN = 26
ADAFRUIT_IO_KEY = 'AIO_KEY'
ADAFRUIT_IO_USERNAME = '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)
        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')
        time.sleep(DHT_READ_TIMEOUT)
```

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