BATCH: B5-5M1E

ASSIGNMENT-2

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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