SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

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ASSIGNMENT 2

Bulid a python code, assume u get temperature and humidity values and write a condition to continuously detect alarm in case of high temperature

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CODE:

#import standard python modules.

import time

import Adafruit_DHT

DHT_READ_TIMEOUT = 5

Pin connected to DHT22 data pin

DHT_DATA_PIN = 26

Set to your Adafruit IO key.

Remember, your key is a secret,

so make sure not to publish it when you publish this code!

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')
# Set up DHT22 Sensor.
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))
    #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')
  time.sleep(DHT_READ_TIMEOUT)
```