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| # import standard python modules. |
| import time |
| # import adafruit dht library. |
| import Adafruit\_DHT |
| # import Adafruit IO REST client. |
| from Adafruit\_IO import Client, Feed |
| # Delay in-between sensor readings, in seconds. |
| 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' |
| # Set to your Adafruit IO username. |
| # (go to https://accounts.adafruit.com to find your  username). |
| ADAFRUIT\_IO\_USERNAME = 'YOUR\_AIO\_USERNAME' |
| # Create an instance of the REST client. |
| aio = Client(ADAFRUIT\_IO\_USERNAME, ADAFRUIT\_IO\_KEY) |

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| # 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') |
| # Timeout to avoid flooding Adafruit IO |
| time.sleep(DHT\_READ\_TIMEOUT) |