SMART HOME

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CODE:

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) # 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)