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# light sensor code for ME30 Project 4
# foundation of code taken from a MAX44009 library
# https://github.com/ControlEverythingCommunity/MAX44009

import sys
import time
sys.path.append('./')
import max44009 # references max44009 script from library
status = ''
lumval = 0      # creating 'empty' variable that will be used to store lux #

from flask import Flask # importing flask
app = Flask(__name__)

@app.route('/')
def welcome():
    return 'Hello!' # prints Hello on the main page of URL
@app.route('/sensor/<string:status>') # adds /sensor/___ to URL
def sensorOn(status):
    if status == 'light': # /sensor/light to retrieve lux value
        max_sensor = max44009.MAX44009(1, 0x4a) # calls function
                                                    # in max44009 code
                                                    # i2c address is 4a
        max_sensor.configure(cont=0, manual=0, cdr=0, timer=0)
        time.sleep(2.0) # measures every 2 sec.
        lumval=max_sensor.luminosity() # stores lux in lumval
        lumvalround=round(lumval) # rounds lux to whole int
        return str(lumvalround) # returns rounded value
    else:
        return 'nothing interesting here' # if wrong URL won't call
```