....

Example script showing how to represent todo lists and todo entries in Python data structures and how to implement endpoint for a REST API with Flask.

```
Requirements:
* flask
import uuid
from flask import Flask, request, jsonify, abort
# initialize Flask server
app = Flask( name )
# create unique id for lists, entries
todo list 1 id = '1318d3d1-d979-47e1-a225-dab1751dbe75'
todo list 2 id = '3062dc25-6b80-4315-bb1d-a7c86b014c65'
todo_list_3_id = '44b02e00-03bc-451d-8d01-0c67ea866fee'
todo 1 id = uuid.uuid4()
todo 2 id = uuid.uuid4()
todo 3 id = uuid.uuid4()
todo 4 id = uuid.uuid4()
# define internal data structures with example data
todo lists = [
    [ 'id': todo_list_1_id, 'name': 'Einkaufsliste'],
[ 'id': todo_list_2_id, 'name': 'Arbeit'],
    {'id': todo list 3 id, 'name': 'Privat'},
todos = [
    {'id': todo 1 id, 'name': 'Milch', 'description': '', 'list':
todo list 1 id},
    \overline{\{' \text{id'}: \text{todo 2 id, 'name': 'Arbeitsbl}\tilde{A}^{\text{m}}\text{tter ausdrucken', 'description': '',}
'list': todo list 2 id},
    {'id': todo 3 id, 'name': 'Kinokarten kaufen', 'description': '', 'list':
todo list 3 id},
    {'id': todo 3 id, 'name': 'Eier', 'description': '', 'list':
todo list 1 id},
# add some headers to allow cross origin access to the API on this server,
necessary for using preview in Swagger Editor!
@app.after request
def apply cors header(response):
    response.headers['Access-Control-Allow-Origin'] = '*'
    response.headers['Access-Control-Allow-Methods'] = 'GET, POST, DELETE'
    response.headers['Access-Control-Allow-Headers'] = 'Content-Type'
    return response
# define endpoint for getting and deleting existing todo lists
@app.route('/list/<list_id>', methods=['GET', 'DELETE'])
def handle list(list id):
    # find todo list depending on given list id
    list item = None
    for \overline{1} in todo_lists:
        if l['id'] == list id:
             list item = 1
             break
    # if the given list id is invalid, return status code 404
```

```
if not list item:
        abort(404)
    if request.method == 'GET':
        # find all todo entries for the todo list with the given id
        print('Returning todo list...')
        return jsonify([i for i in todos if i['list'] == list id])
    elif request.method == 'DELETE':
        # delete list with given id
        print('Deleting todo list...')
        todo lists.remove(list item)
        return '', 200
# define endpoint for adding a new list
@app.route('/list', methods=['POST'])
def add_new_list():
    # make JSON from POST data (even if content type is not set correctly)
    new_list = request.get_json(force=True)
    print('Got new list to be added: {}'.format(new_list))
    # create id for new list, save it and return the list with id
    new_list['id'] = uuid.uuid4()
    todo lists.append(new list)
    return jsonify(new list), 200
# define endpoint for getting all lists
@app.route('/lists', methods=['GET'])
def get_all_lists():
    return jsonify(todo lists)
if __name__ == '__main__':
    # start Flask server
    app.debug = True
    app.run(host='0.0.0.0', port=5000)
```