Data Representation

Lab 04.1: requests

Lecturer: Andrew Beatty

* In this lab we will write a module to interact with the API I created at

http://andrewbeatty1.pythonanywhere.com/books

* More information on requests at

[Requests: HTTP for Humans™ — Requests 2.28.1 documentation](https://requests.readthedocs.io/en/latest/)

1. Test to see if requests is working for you

import requests

url = "http://google.com"

response = requests.get(url)

print (response.text)

(you should get a whole pile of html)

1. Write the code to get the books from http://andrewbeatty1.pythonanywhere.com/books

import requests

URL = <http://andrewbeatty1.pythonanywhere.com/books>

response = requests.get(URL)

print (response.json())

1. Convert that into a function and call it from inside a if \_\_name\_\_ == “\_\_main\_\_”:

def readbooks():

    response = requests.get(URL)

    # we could do checking for correct response code here

    return response.json()

if \_\_name\_\_ == "\_\_main\_\_":

    print (readbooks())

1. Write the function for find by id and test it (you need to write the testing code)

def readbook(id):

    geturl = URL + "/" + str(id)

    response = requests.get(geturl)

    # we could do checking for correct response code here

    return response.json()

1. write the code to create and test it (you need to write your own testing code)

def createbook(book):

    response = requests.post(URL, json=book)

    # should check we have the correct status code

    return response.json()

1. Write the update function

def updatebook(id, book):

    puturl = URL + "/" + str(id)

    response = requests.put(puturl, json=book)

    return response.json()

1. Write the delete function

def deletebook(id):

    deleteurl = URL + "/" + str(id)

    response = requests.delete(deleteurl)

    return response.json()

1. Have you tested all these???
2. Write a program in another file that works out the average book price from all the books on the server