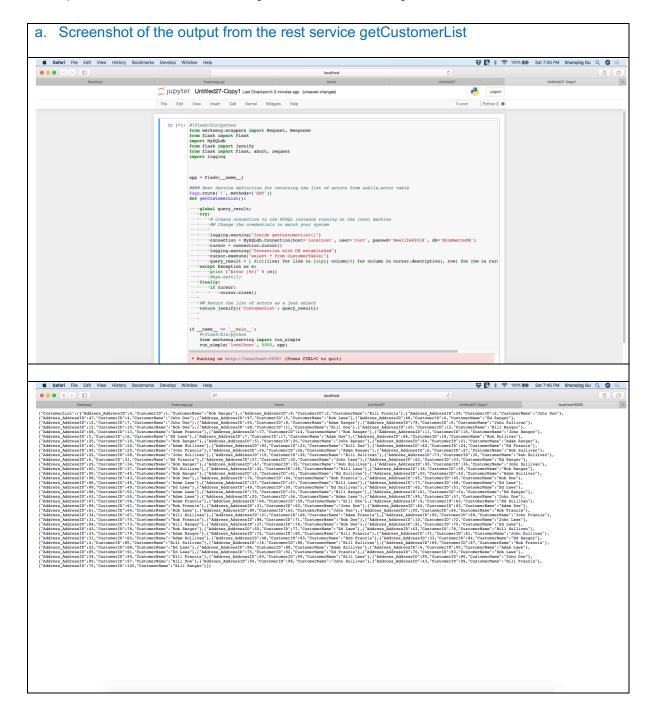
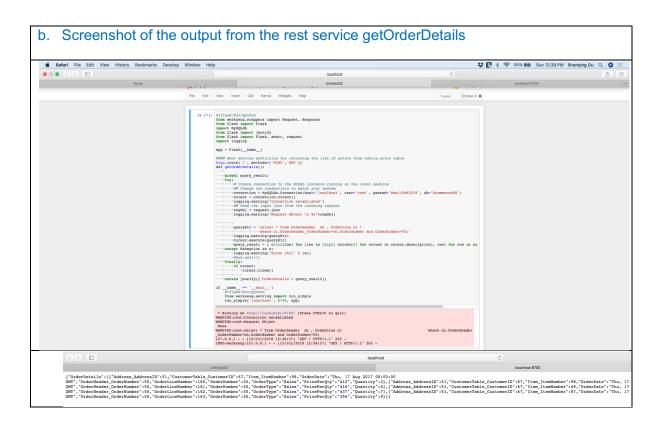
MSDS 7330 HW9 Due Date: 07/16/2018

Homework 9

1. Set up and configure InClass Lab #2 (Rest Services) from Unit 9. Turn in the screenshots of the output from the 2 rest services getCustomerList and getOrderDetails



Also can get the same output screenshot from terminal Finder File Edit View Go Window Help Desktop — python appcopy.py — 80×24 Last login: Sat Jul 14 21:24:06 on ttys001 B -bash: Export: command not found | Shanqings-MBP:~ shanqinggu\$ cd desktop | Shanqings-MBP:desktop shanqinggu\$ python appcopy.py | * Running on http://localhost:5000/ (Press CTRL+C to quit) WARNING:root:Inside getCustomerList() WARNING:root:Connection with DB established 127.0.0.1 - - [14/Jul/2018 21:25:59] "GET / HTTP/1.1" 200 - INFO:werkzeug:127.0.0.1 - - [14/Jul/2018 21:25:59] "GET / HTTP/1.1" 200 -localhost Ċ {"CustomerList": [{"Address_AddressID":4,"CustomerID":1,"CustomerName":"Rob Ranger"}, {"Address_AddressID":9,"CustomerID":2,"CustomerName":"Bill Francis"}, {"Address_AddressID":9,"CustomerID":2,"CustomerName":"Bill Francis"}, {"Address_AddressID":29,"CustomerID":3,"CustomerName":"John Doe"}, {"Address_AddressID":47,"CustomerID":4,"CustomerName":"John Doe"}, {"Address_AddressID":48,"CustomerID":5,"CustomerName":"Rob Laws"}, {"Address_AddressID":48,"CustomerID":6,"CustomerName":"Ed Ranger"}, {"Address_AddressID":12,"CustomerID":7,"CustomerName":"John Doe"}, {"Address_AddressID":55,"CustomerID":8,"CustomerName":"John Sullivan"}, {"Address_AddressID":79,"CustomerID":9,"CustomerName":"Rob Doe"}, {"Address_AddressID":78,"CustomerID":11,"CustomerName":"Rob Doe"}, {"Address_AddressID":8,"CustomerID":11,"CustomerName":"Rob Doe"}, {"Address_AddressID":8,"CustomerName":"Rob Doe"}, {"Addre "Address_AddressID":68, "CustomerID":11, "CustomerName":"Bill Doe"}, "Address_AddressID":20, "CustomerID":12, "CustomerName":"Bill Ranger"}, "Address_AddressID":68, "CustomerID":13, "CustomerName":"Adam Francis"}, { "Address_AddressID :00, CustomerID :13, CustomerName : Adam Francis } { "Address_AddressID :77, "CustomerID :14, "CustomerName : "Rob Ranger"}, "Address_AddressID :11, "CustomerID :15, "CustomerName : "John Ranger"}, {"Address_AddressID :5, "CustomerID :16, "CustomerName : "Ed Laws"}, "Address_AddressID :7, "CustomerID :17, "CustomerName : "Adam Doe"}, "Address_AddressID":86, "CustomerID":18, "CustomerName": "Rob Sullivan"}, "Address_AddressID":25, "CustomerID":19, "CustomerName": "Rob Ranger"}, "Address_AddressID":25, "CustomerID":19, "CustomerName": "Rob Ranger"}, "Address_AddressID":51, "CustomerID":20, "CustomerName": "John Ranger"}, "Address_AddressID":64, "CustomerID":21, "CustomerName": "John Ranger"}, "Address_AddressID":40, "CustomerID":22, "CustomerName": "Adam Ranger"}, "Address_AddressID":83, "CustomerID":23, "CustomerName": "Bill Doe"}, "Address_AddressID":82, "CustomerID":24, "CustomerName": "Ed Francis"}, "Address_AddressID":24, "CustomerID":25, "CustomerName": "John Francis"}, "Address_AddressID":24, "CustomerID":26, "CustomerName": "Adam Ranger"}, "Address_AddressID":6, "CustomerID":7, "CustomerName": "Rob Sullivan"}, "Address_AddressID":22, "CustomerID":7, "CustomerName": "Rob Sullivan"}, ("Address_AddressID":22,"CustomerID":28,"CustomerName": "John Sullivan"), ("Address_AddressID":19,"CustomerID":29,"CustomerName":"Bill Sullivan"), ("Address_AddressID":73,"CustomerID":30,"CustomerName":"Rob Sullivan"), ("Address_AddressID":6,"CustomerID":31,"CustomerName":"Ed Francis"), ("Address_AddressID":57,"CustomerID":32,"CustomerName":"John Laws"), ("Address_AddressID":62,"CustomerID":33,"CustomerName":"Ed Ranger"), ("Address_AddressID":62,"CustomerID":33,"CustomerName":"Ed Ranger"), "Address_AddressID":22, "CustomerID":33, "CustomerName": Ed Ranger"}, "Address_AddressID":29, "CustomerID":34, "CustomerName": "Rob Ranger"}, "Address_AddressID":67, "CustomerID":35, "CustomerName": "Rob Sullivan"}, "Address_AddressID":93, "CustomerID":36, "CustomerName": "John Sullivan"}, "Address_AddressID":60, "CustomerID":37, "CustomerName": "Ed Sullivan"},



c. Write a new rest service that takes in a number as input and returns the square of the number as the output. The output of the service must be a json structure, turn in the code and the screenshot

a. Screenshot of the code			
In [*]:	from werkzeug.wrappers import Request, Response from flask import Flask from flask import jsonify		
	app = Flask(name)		
	<pre>@app.route('/', methods=['GET'])</pre>		
	<pre>def SqrtList(): l=list() for i in range (90,99): l.append (i**2) return jsonify({'Square list from 90 to 99':1}) ifname == 'main': #!flask/bin/python from werkzeug.serving import run_simple run_simple('localhost', 5000, app)</pre>		
	* Running on http://localhost:5000/ (Press CTRL+C to quit)		
b. Screenshot of the output			
	localhost:5000	Untitled33	
{"Square list from 90 to 99":[8100,8281,8464,8649,8836,9025,9216,9409,9604]}			

Additionally, read about the following topics online to get additional background information

- RestServices (https://www.infoq.com/articles/rest-introduction#anch15265
- HTTP Get and Post methods (https://www.youtube.com/watch?v=UObINRj2EGY)
- Python Flask Library (https://blog.miguelgrinberg.com/post/designing-a-restful-api-with-python-and-flask)

Feel free to search online for any other useful materials about the above topics and share them on the course wall!