

Unit 9: Homework

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`



The screenshot shows a REST client interface with the URL `127.0.0.1:5000/api/v1.0/getCustomerList`. The response is displayed in JSON format, showing an array of 8 customer objects. Each object contains the following fields:

- `Address_AddressID`: A numeric value.
- `CustomerID`: A numeric value.
- `CustomerName`: A string value.

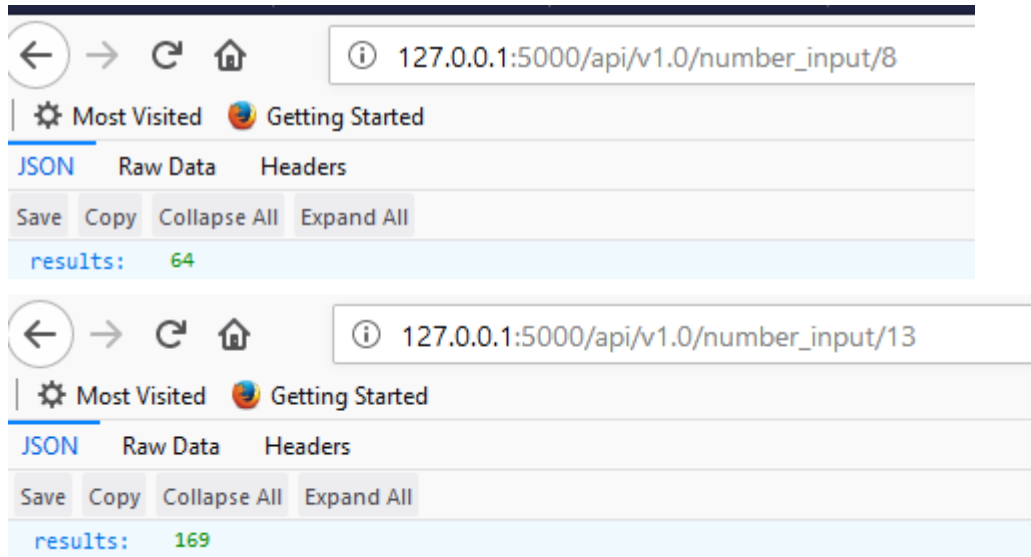
The data is as follows:

Index	Address_AddressID	CustomerID	CustomerName
0	4	1	"Rob Ranger"
1	9	2	"Bill Francis"
2	29	3	"John Doe"
3	47	4	"John Doe"
4	97	5	"Rob Laws"
5	48	6	"Ed Ranger"
6	12	7	"John Doe"
7	55		



- 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

```
@app.route('/api/v1.0/number_input/<int:a>', methods=['POST', 'GET'])
def square(a):
    return jsonify(results=a*a)
```



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

- RestServices (https://www.youtube.com/watch?v=LooL6_chvN4 , <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!