

In class exercises for Class 02 on 01.23.2019

John Serences ([jserences@ucsd.edu](mailto:jserences@ucsd.edu))

Continue to use your notebook from the lecture, but please insert a text cell and a note to indicate where your problem set begins so that I can easily find your answers.

**Please also number your answers with a short comment like: #1a, 1b...3a...etc.**

Do all work in your notebook, and make sure to run each cell of code before you move on.

1) Take the following dictionary and return the sorted **values** for each key:

```
num = {'x': [2,4,1], 'y': [3,2,1], 'z': [5,7,6]}
```

Hint - note that this is a dictionary with lists for values.

So your output should be something like:

```
{x: [1,2,4], y: [1,2,3], z: [5,6,7]}
```

2) Take this list of user input:

```
products = ['Toyota', 'honda', 'VW', 'toyota', 'ford', 'chevy', 'Honda', 'Ford']
```

Use a combination of “for” statements and “if..elif...else” statements and boolean logic to sort the list into unique carmakers, irrespective of the case of the user input. There are multiple solutions, but in the end the list should look like:

```
products = ['toyota', 'honda', 'vw', 'ford', 'chevy']
```