

## Zelle Chapter 6 Coding Assignment

### Exercise 1

Using the work that I did in the tutorial as a model, create a python program that prints the lyrics to Adele's song "Rolling in the Deep". The following text file is provided in the Weekly Schedule so that you won't need to either find or type the lyrics:

```
rolling_in_the_deep_adele.txt
```

Remember to test your program.

### Exercise 2

Using the work that I did in the tutorial as a model, create a python program that converts a measurement in miles to a measurement in kilometers. Remember to structure your code so that the conversion itself is segregated in a called function. Remember to test your program.

### Exercise 3

Using the work that I did in the tutorial as a model, create a python program that demonstrates how immutable values passed to a called function CANNOT be changed within the context of the calling code. Demonstrate this **using a float type object**. Remember to test your program.

### Exercise 4

Using the work that I did in the tutorial as a model, create a python program that demonstrates how mutable values passed to a called function CAN be changed within the context of the calling code. Demonstrate this with a list of integers. Within the called function, square each value (\*\*2), then sort the entries of the list. Remember to test your program with test data that will demonstrate sorting.

### Tools

Use PyCharm to create and test all python programs.

### Submission Method

Follow the process that I demonstrated in the beginning of the semester regarding submitting your work. This involves:

- Locating the directory associated with your project in the file system.
- Compressing that directory into a single .ZIP file using a utility program.
- Submitting the properly named zip file to the submission activity for this assignment.

### Due By

Please submit this assignment by the date and time shown in the Weekly Schedule.