1 Week 6 Exercises

1.1 Fun with Functions

1.1.1 Maximal entertainment

Create a function which takes in a list and prints out the biggest value in the list (**don't** use pythons max() function!)

Extension 1 Instead, return the maximum value and print it outside of the function

1.1.2 Sum thing to do

Create a function which accepts a **list** of numbers and prints the **sum** of all the numbers

Extension 1 Get your function to return the **average** value in the list (You'll want to use len())

1.2 File I/O

1.2.1 Create

Create a file called **averages.txt** and store the results from the function you created in the previous exercise inside of that file.

Extension

Append to the file rather than overwriting by using the "a" parameter instead of "w".

1.2.2 Read

Read in the **poem.txt** file:

- print out the sentence created by taking
 - First word from first line
 - Second word from second line
 - etc.

Hint: Remember the .split(" ") function?

1.3 Challenge - Wherefore art thou paragraph

Read the shakespeare.txt file:

- Create a function which returns the first **N** paragraphs from the file
- Make use of the fact that the line preceding each paragraph contains the corresponding paragraph number

Hints

- 1. Use a while loop to carry out .readlines() until you reach the end of a paragraph
- 2. Create a function which returns one paragraph, and put it inside another function which calls it N times