Python Review Exercise 1

- Create a new folder named ‘python-review’
- Open the Atom application
- Open your new ‘Python Review’ folder in Atom
- Create a new file named ‘helloworld.py’
- Type the following code in the file:

```
print(‘Hello, World!’)
```

- Open a Terminal window
- Navigate to your folder using cd (cd Desktop/python-review)
- Type the command ‘python helloworld.py’ and hit Enter

Python Review Exercise 2

- Create a new file named ‘grades.py’
- Let’s use a list of grades from a hypothetical CS course to explore lists, if statements, and for loops.
- Generate a list of ~10 fake grades (your choice)
- Create a function for checking grades
  - Loop through the grades and print out ‘You passed!’ when the grade is above a 70 otherwise print ‘Sorry, you did not pass’
- Call the function

Python Review Exercise 3

- Practice using a Python library called NumPy
  - We will use this in future machine learning projects
- Create a new file called ‘numpy_practice.py’
- Import the NumPy library
  - import numpy as np
  - Using ‘as np’ means that when you reference the library you can just use np rather than type numpy every time
  - For example, call np.function(array)
- Create a list of random integers
- Print out the results of using NumPy to find the following:
  - Size
  - Minimum and maximum (amax, amin)
  - Mean
  - Shape (dimensions of the array)
  - Sorted array