CPS 3320: Python Programming

**Project Assignment #2**

This project is designed to provide you an opportunity to explore Python libraries in areas of interest to you - either for professional or personal interest.

You assignment is to explore the vast collection of libraries at [PyPi.python.org](http://pypi.python.org/) and **select three libraries** of interest to you.

The requirements of this project are the following:

1. For each library that you have selected, write a brief (1-2 page) description that:
   1. explains its central purpose
   2. describes useful and/or interesting ways in which it might be used (with at least two practical examples)
   3. provides a high-level overview of the different functions included in the library as found in its official documentation (and provide a link to the documentation).
2. For each library that you have selected, create a Python program that demonstrates its implementation. In other words, write an original (and fully-functional) Python program that actually uses the library in meaningful ways. You have creative license to conceive of any type of program you want to write. The goal is to explore and be creative and practice using libraries that you were previously unfamiliar with.

Deliverables:

* One write-up (.docx file) and one code sample (.py file) for each of your three selected libraries. So 3 write-ups and 3 code samples in total.
  1. Also attach any file dependencies that will be needed for your program to successfully execute.
* **Please submit all of your project files through the link on our class Blackboard page labeled “Project #2” by Wednesday, April 6th**.