**Lesson Plan**

**Module 2:** Using Python for basic NLP functions

**Objectives:**

* Show the basic steps to execute a Python program in the Command Line
* Create a simple program that can detect a sequence of letter and add them to a list
* Create a program that can lower case and tokenize a text

**Students’ Outcomes:** at the end of this module students will be able to:

* Run prepared Python scripts in the Command Line
* Use Python to tokenize words and segment sentences from a text
* Learn how to save the output in a text file

**Instructional Delivery:** After explaining the rationale for using the command line to run Python scripts, show students how to create a Python file in a text editor, such as: **atom.io** or **Xcode** (Mac). Explain the 4 steps to execute a Python script in the command line. Then, show students how you write each line of Python code in the text editor. Don’t forget to use the scripts in the Materials folder. Model the exercise while the students do the same thing in their computers. Pause halfway through the code to check on the progress of students and solve any issues. Once the first program is written, test the python code and run. Do the same process for the second program of the exercise: tokenizetextfile.py. Use the testfile.txt and testfile2.txt to model the use of the Python programs.

Finally, present the lab assignment 2 and answer any questions students may have.

**Assessment:**

* Lab 2 Assignment: <https://github.com/falconrr/NLP4SPanish/blob/main/Week%202/LabAssignment2/Lab2.md>
* Negotiate a due date depending on the progress of the class and mastery with the Python exercise.