# **M4HW (Word Frequency Bar Chart)**

**Introduction**:

The assignment requires good understanding of NLP Tool Kit and TextBlob library and the different functions they contain for analyzing and manipulating text

**Instructions**:

For this assignment you will complete exercise 12.06 on page 512 of your textbook.

1.Create a Python code file named M4HW\_FrqBarChart\_FirstLast.py   
(replace "FirstLast" with your own name)  
2. Add a title comment block to the top of the new Python file using the following form

# A brief description of the project  
# Date  
# CSC221 M4HW – FrqBarChart  
# Your Name

3. Part 1 (70 points)

1. Download “Shakespeare’s Hamlet” from the Project Gutenberg site as explained on page 480
2. Eliminate stop words.
3. Create a top-20 word frequency bar chart.

4. Part 2 (20 points)

1. Create a word cloud for the top-20 words you prepared in step 3. You will have to install wordcloud library , the text book provides instructions on how to do this. Check page 501
2. There different image that you use for this task , the image are available in the folder titled “Intro to Python Slides” under “Optional Resources” tab. Once you’ve downloaded the folder, go to the “examples” folder then “ch12” folder, the image are available there.

**Submit** your finished code solution file(s) through the assignment link below

**Grading criteria**:

• Shown next to each required point in instructions above

• Pseudocode and block comment (**10 points** )