School Nova Computer Science 201

Homework 3

Save your code as lastname_homework3.py and submit on Google Classroom

Task 1

Ask the user to type some text that must consist of at least two sentences and each sentence must have at least two words. If the user does not comply, ask the user to do it again. If the user does not comply 3 times in a row, the program displays an error message and exits.

Task 2

Create a class Text. The objects of the class are basically strings. Create the following instance methods for this class (notice that there should be seven separate methods):

1. calculates the number of sentences in a Text object
2. calculates the number of words
3. calculates the average number of words per sentence
4. calculates the average number of characters per word
5. creates a dictionary of all words in text and how often they are used (a word is a key; the number of times used is a value).
6. displays the statistics from methods 1-4 for the user
7. displays the dictionary information (from method 5) for the user