110-1 Assignment #2 (7%)
Class, Objects, Instance/Static Methods, Encapsulation

Requirements:

- Implement a class **TextFeature**. For the purpose of this exercise an **TextFeature** has an **ARI, numWord, numSentence, numCharcter, numVowel.**
- You are required to implement a tester class **TextFeatureTester.**

Instance fields (i.e., attributes):

Attribute name	Attribute type	Description
docID	int	The document ID, starts from 000.
ARI	int	Automated Readability Index: GL = 0.37 (words/sentence) + 5.84 (characters/word) – 26.01
numWord	int	Number of word
numSentence	int	Number of sentence
numCharacters	int	Number of character
numVowel	int	Number of vowel (i.e. a, e, i, o, u)

Public interface:
Provide a constructor to set these default values.
public TextFeature ( )

Write a static method
setDocID(int)
that increment the static variable *docID* by 1.

The following modifier(mutator) methods should be provided to set the attributes:
public setARI(int)
public setNumWord(int)
public setNumSentence(int)
public setNumCharacter(int)
public setNumVowel(int)

The following accessor methods should be provided to get the attributes:
public getARI(int)
public getNumWord(int)
public getNumSentence(int)
public getNumCharacter(int)
public getNumVowel(int)

The following method must be defined:
public toString(): String
The toString method should return a string of an "TextFeature" object in the following format:
\nThe document ID is: \t001\n
\nThe ARI readability of the document is: \tGL11\n
\nThe number of word is: \t392\n
\nThe number of sentence is: \t45\n
\nThe number of character is: \t1192\n
\nThe number of vowel is: \t674\n

Extra point (1%):
Modify your HW1, provide a method *getARI* from the *ReadabilityScore* class that you can use in this assignment to get the real ARI from the dataset.

Submission: Your Java project is named yourStudentID_HW2. Put all files in a folder and compressed it. Submit your assignment on eCourse2 under HW2. No other submissions will be graded and points will be deducted for late submission.

Academic dishonesty: You may not do work for another student nor may any student copy or plagiarize someone else's work. Severe penalties will be imposed on all parties involved.

Deadline: Thursday, November 25, 2018. (end of the day)