TDD LAB 2

Intro: Pig Latin is a children's word game in English where starting consonants are flipped to the ends of words and -ay added to each word. Hello World would be ellohay orldway in Pig Latin, for instance. Many languages have games similar to this--read more at http://mentalfloss.com/article/50242/pig-latins-11-other-languages

Task: Translate from English to Pig Latin.

What Will the Application Do?
- The user enters a word or phrase into text input.
- The application translates the text to Pig Latin and displays it in a paragraph below the text area.

Build Specifications
1. Translation must all be done in a `translate` function that takes a string parameter and returns the translated Pig Latin string.
2. The translation functionality must be developed with TDD using tests on the `translate` function.

Additional Build Specifications
1. Convert each word to lowercase before translating.
2. If a word starts with a vowel, just add "way" onto the ending.
3. If a word starts with a consonant, move all of the consonants that appear before the first vowel to the end of the word, then add "ay" to the end of the word.

Hints
- Treat "y" as a consonant.
- Start with the simplest cases and work up, for example...
    a. words that start with vowels... write tests for several different starting vowels
    b. words that start with vowels with capital letters are converted to lowercase
    c. words that start with one consonant... write tests for the second letter being several different vowels
    d. words that start with two consonants
    e. words that start with more consonants

Extended Challenges

- Keep the case of the word, whether its uppercase (WORD), title case (Word), or lowercase (word).
- Allow punctuation in the input string.
- Translate words with contractions. Ex: can't become an'tcay
- Don't translate words that have numbers or symbols. Ex: 189 should be left as 189 and hello@grandcircus.co should be left as hello@grandcircus.co.
- Check that the user has actually entered text before translating.
- Make the application take a line instead of a single word, and then find the Pig Latin for each word in the line.

Grading Criteria

1. Multiple tests for words starting with different vowels.
   a. These tests are correct and pass.
2. At least one test for words starting with one consonant.
   a. These tests are correct and pass.
3. At least one test for words starting with two consonants.
   a. These tests are correct and pass.
4. At least one test for words starting with three consonants.
   a. These tests are correct and pass.
5. At least one test checking for lower case conversion.
   a. These tests are correct and pass.