

Program Description: Pig Latin

Definition of Pig Latin (Wikipedia):

"Pig Latin is a language game where words in English are altered according to a simple set of rules. Pig Latin takes the first consonant (or consonant cluster) of an English word, moves it to the end of the word and suffixes an ay (for example, pig yields igpay, banana yields ananabay, and trash yields ashtray)."

The objective is to conceal the meaning of the words from others not familiar with the rules.

For this assignment, you will write a java application that will read in a String of one or more words and convert that String into Pig Latin. The program should NOT ask the user for each word individually but read in whatever the user enters as a single String. Once the String has been entered, you will need to separate each word and store them into individual array elements.

For example:

```
Input => "How are you"
arr[0]="How"
arr[1]="are"
arr[2]="you"
```

Once the words have been separated, you will need to process each word individually according to the following rules:

1. For words that begin with consonant sounds, the initial consonant or consonant cluster is moved to the end of the word, and "ay" is added, as in the following examples:
 - "happy" → "appyhay"
 - "duck" → "uckday"
 - "glove" → "oveglay"
2. For words that begin with vowel sounds or silent letter, "way" is added at the end of the word. Examples are
 - "egg" → "eggway"
 - "inbox" → "inboxway"
 - "eight" → "eightway"
3. The letter 'y' can play the role of either consonant or vowel, depending on its location
 - "yellow" → "ellowyay"
 - "rhythm" → "ythmrhay"

Once all words have been processed, the phrase will be re-assembled and displayed to the user in Pig Latin (see example output)

NOTE 1– Punctuation should not be considered

NOTE 2– You may structure your code as you see fit in regards to method and variable usage. However, only one Class should be used and appropriate naming conventions must be utilized

Example Output:

Pig Latin Converter!

Please enter a phrase to be converted:

>How are you

Your new phrase in Pig Latin:

Owhay areway ouyay

Constraints:

- a) Make sure you use the following comment at the beginning of your program:

```
/******  
Homework 4:   Pig Latin  
Program By:   YOUR NAME  
File Name:    Piglatin.java  
Function:     This program converts Strings to Pig Latin  
******/
```

- b) **ALL CODE** should be within a single Java files
- c) **ATTACH** your completed .java file to the *submission link*. Do not cut and paste your code into the message section.