

PIG LATIN 2024

STEP 1: BASIC RULES

Pig Latin is a pretend language.

The basic rule is simple: move the leading consonants to the end of the word and append "ay".

```
pig -> igpay  
latin -> atinlay  
this -> isthay  
strange -> angestray  
bcd fgh -> **** INVALID****
```

If the first letter is a vowel then just append "way".

```
apple ->  
appleway  
eye -> eyeway
```

STEP 1: Write a program that translates words from English to Pig Latin. Prompt for an English word and output the translation in Pig Latin. If the word has no vowel, print "**** INVALID ****". Repeat this sequence until the user wants to quit.

Program to import – PigLatin_Shell.java

STEP 2: HANDLE "QU" AND "Y"

- 1) If the first vowel is a "u" and the letter before it is a "q" then the "u" also goes to the end of the word.**

```
question ->  
estionquay  
squeeze ->  
eezesquay
```

- 2) Treat "y" as a consonant if it's the first letter of a word; otherwise, treat "y" as a vowel if it appears earlier than any other vowel.**

```
yes -> esyay  
rhyme ->  
ymerhay  
try -> ytray
```

STEP 2: Modify your program to handle these special cases.

STEP 3: PIGLATINIZE A TEXT FILE

Modify your program to read in a text file ("PigLatin.txt"). Translate all the words in that file from English to Pig Latin, then output the words into the new text file ("PigLatinOut.txt")

It is OK to hard-code the file name in your source-code

The text file will have one word per line.

Use one Scanner objects to read in the filename. Use another Scanner to actually read the file. Use try-catch blocks to catch the exception. The class calendar has tips on using Scanner objects..

STEP 3: Read in PigLatin.txt and output PigLatinOut.txt

CAPITALIZATION AND PUNCTUATION – STEP 4 (OPTIONAL)

If the first letter is capitalized in English then the first letter should be capitalized in Pig Latin also. Capital letters in the middle of the word are ignored and remain capitalized.

Thomas -> Omasthay
Jefferson -> Effersonjay
McDonald ->
OnaldmcDay
McArthur ->
Arnoldmcay

If before-and-after punctuation is used in English then it should remain in Pig Latin. Apostrophes are ignored and remain where they are.

What? -> Atwhay?
Oh! -> Ohway!
"hello" -> "ellohay"
"Hello!!!!" -> "Ellohay!!!!"
don't -> on'tday

NOTE: Your code must use the helper functions given in class and employ good top-down design practices.