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| **LAB211 Assignment** | **Type:** | **Short Assignment** |
| **Code:** | **J1.S.P0058** |
| **LOC:** | **48** |
| **Slot(s):** | **1** |

**Title**

Write program dictionary.

**Background**

N/A

**Program Specifications**

Students are required to write a program called “Simple English - Vietnamese Dictionary” with the following features:

1. Add new word
2. Delete word
3. Search word.
4. Exit.

Users will use the program to add their pairs of English - Vietnamese words to the file on disk storage; search and display the Vietnamese word for inputted English word; or remove some pair of words from existing dictionary.

***Function details:***

**Function 1:** Display a menu and ask users to select an option.

* Users run the program. The program prompts users to select an option.
* Users select an option, perform **Function** **2**.

**Function 2:** Perform function based on the selected option...

* Option 1: Add word
  + Ask user to enter a pair of English - Vietnamese words
  + Add the pair to a dictionary (file)
  + Return to the main screen.
* Option 2: Delete word
  + Ask user to enter the English word to be removed.
  + Find and remove the related English-Vietnamese pair of words from dictionary
  + Return to the main screen.
* Option 3: Translate word
  + Ask user enter English word
  + Find the related pair and display the approximate Vietnamese word
  + Return to the main screen.
* Option 4: Exit program

***Expectation of User interface:***

======== Dictionary program ========

1. Add Word
2. Delete Word
3. Translate
4. Exit

Your choice:

------------- Add -------------

Enter English: Cat

Enter Vietnamese: Con Meo  
Successful

------------- Translate ------------

Enter English: Cat  
Vietnamese: Con Meo

------------ Delete ----------------  
Enter English: Cat  
Successful

1

2

3

4

**Guidelines**

**Student must implement methods**

* addWord
* removeWord
* translate

**in startup code.**

**Suggestion:**

* Students use the hash map to store worth a pair Eng - Vi
* Every turn on the program from will test has data files or not yet:
* If there is then load data files recorded on the type HashMap into program by loadData function ().
* If not, initialize HashMap is Empty.
* When adding a keyword to inspect keywords in the dictionary that has not:
  + If yes, ask the users want to update the mean of keyword.
  + Otherwise put into hashmap then overwrites the data on file with the methods updateDatabase
* Delete file a keyword:
* If you find it to delete and overwrite the file data by methods updateDatabase.
* If not found, the notification does not exist in the db key.
* Search word:
* If found, displays the value found in db
* If not found, display empty.

* **Function 1:** Add wordMust install the function: public boolean addWord (String eng, String vi)
  + Input:
* eng: English mean.
* vi: Vietnamese mean.
  + Return value: the status add word
* **Function 2:** Delete word. Must install the function public boolean removeWord(String eng)
* Input: eng: English word
* Return Value: status delete word.

**Function 3:** Search word.

* Must install the function: public String translate(String eng)
  + Input
* eng: English word.
  + Return Value Vietnamese word