Main

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
Main	1	Goes to Manage Data	**1**	Prints Manage Data Menu	Prints Manage Data Menu	P
Main	2	Goes to Translate Menu and Loads Import File	**2**	Prints Translate Menu	Prints Translate Menu	P
Main	3	Goes to View Analytics	**3**	Prints	Entry is added, but Language is auto-formatted to "English"	P
Main	4	Changes User	**Nicos**	If Nicos is not Located in Accounts Lists.txt then it is appended in the file	New Account! Hello Nicos	P

AddEntry

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
addEntry	1	Adding a valid language-translation pair	**Add Language (STOP! To terminate command):** "English" **Add Translation (STOP! To terminate command):** "Sight" **Add another entry? [y/n]:** "n"	Entry is added, shown in DisplayAllEntries	Entry is added, shown in DisplayAllEntries	P
addEntry	2	Adding an entry that already exists	**Add Language (STOP! To terminate command):** "English" **Add Translation (STOP! To terminate command):** "Sight" **Add another entry? [y/n]:** "y" **Add Language (STOP! To terminate command):** "English" **Add Translation (STOP! To terminate command):** "Sight"	Shows existing entries, Ask if this is a new entry	Shows existing entries, Ask if this is a new entry	P

| addEntry | 3 | Adding a language-translation pair with mixed case | **Add Language (STOP! To terminate command):** "EnGliSh"

Add Translation (STOP! To terminate command): "SiGHt"

Add another entry? [y/n]: "n" | Entry is added, but Language is auto-formatted to "English" | Entry is added, but Language is auto-formatted to "English" | F |

AddTranslation

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
AddTranslation	1	Adding a translation to a non-existing entry	**Find Language (STOP! To terminate the command):** "English" **Find Translation (STOP! To terminate the command):** "Hello"	ERROR. No Entry Found. Please add an Entry First.	ERROR. No Entry Found. Please add an Entry First.	P
AddTranslation	2	Adding a valid translation to an existing entry	**Find Language (STOP! To terminate the command):** "English" **Find Translation (STOP! To terminate the command):** "Hello" **Add Language (STOP! To terminate the command):** "Spanish" **Add Translation (STOP! To terminate the command):** "Hola"	The translation is added and can be checked in DisplayAllEntries	The translation is added and can be checked in DisplayAllEntries	P
AddTranslation	3	Adding a translation when the max count (10) has already been reached	**Find Language (STOP! To terminate the command):** "English" **Find Translation (STOP! To terminate the command):** "Hello"	Maximum Number of Translation Pairs Exceeded, Cant add anymore	Maximum Number of Translation Pairs Exceeded, Cant add anymore	F

DeleteEntry

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
DeleteEntry	1	Deleting an existing entry	**Action (L-> Move Left Index, R-> Move Right Index, Q-> Stop):** "Q" **Entry Index:** "1"	Deleted Entry #1	Deleted Entry#1	P
DeleteEntry	2	Attempting to delete an entry when there are no entries	**(From the Menu) Action:** "4"	No Entries	No Entries	P
DeleteEntry	3	Attempting to delete an entry that is out of bounds	***Assuming 2 entries added** **Action (L-> Move Left Index, R-> Move Right Index, Q-> Stop):** "Q" **Entry Index:** "3"	Can't Delete Entry # That does not exist!	Can't Delete Entry # That does not exist!	P

DeleteTranslation

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
DeleteTranslation	1	Deleting a translation from an existing entry	***Assuming only 1 entry** **Action (L-> Move Left Index, R-> Move Right Index, Q-> Stop):** "Q" **Entry Index:** "1" **Choose an Entry pair Number to Delete:** "2"	The selected translation is deleted.	The selected translation is deleted.	P
DeleteTranslation	2	Deleting a translation that does not exist	***Assuming only 1 entry** **Action (L-> Move Left Index, R-> Move Right Index, Q-> Stop):** "Q" **Entry Index:** "2"	Can't delete given index #	Can't delete given index #	P
DeleteTranslation	3	Deleting the only existing entry in the system	***Assuming only 1 entry**	entry deleted successfully	entry deleted successfully	P

			Action (L-> Move Left Index, R-> Move Right Index, Q-> Stop): "Q" **Entry Index:** "1"			

DisplayAllEntries

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
DisplayAllEntries	1	No Entries exist	**nEntry = 0**	No Entries	No Entries	P
DisplayAllEntries	2	Two Entries which have the same language, sorted alphabetically..	**Add Language (STOP! To terminate command):** "English" **Add Translation (STOP! To terminate command):** "Hello" **Add another entry? [y/n]:** "y" **Add Language (STOP! To terminate command):** "English" **Add Translation (STOP! To terminate command):** "Apple" **Manage Data Menu* Action:** "6" **Action (L-> Move Left Index, R-> Move Right Index, Q-> Stop):** "R"	**First Display: Language:** "English" **Translation:** "Apple" **Pressing R**** **Second Display: Language:** "English" **Translation:** "Hello"	**First Display: Language:** "English" **Translation:** "Apple" **Pressing R**** **Second Display: Language:** "English" **Translation:** "Hello"	P
DisplayAllEntries	3	Entry with multiple translations. Sorted alphabetically.	**Add Entry: English, Hello Add Translations: French: Bonjour, Spanish, Hola, Arabic, Marhaban**	Arabic: Marhaban English: Hello French: Bonjour Spanish: Hola	Arabic: Marhaban English: Hello French: Bonjour Spanish: Hola	P
DisplayAllEntries		3l English Entries, Sorted Alphabetically	**Add Entries: English Paper**	English: Anger	English: Anger	R

		English Apple English Anger	**Action (L-> Move Left Index, R-> Move Right Index, Q-> Stop): "R"** English: Apple **Action (L-> Move Left Index, R-> Move Right Index, Q-> Stop): "R"** English: Paper	**Action (L-> Move Left Index, R-> Move Right Index, Q-> Stop): "R"** English: Apple **Action (L-> Move Left Index, R-> Move Right Index, Q-> Stop): "R"** English: Paper	

SearchWord

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
SearchWord	1	Search for a word that does not exist	**Search word: xyz**	No Entries Found	No Entries Found	P
SearchWord	2	Search for a word present in one entry	**Add Entry: English, Paper** **Search word: Paper**	Language Translation English Paper	Language Translation English Paper	P
SearchWord	3	Search for a word that exists in multiple entries	**Add Entry: English, Expensive** **Add Translation: Tagalog mahal** **Add Entry: English, love** **Add Translation: Tagalog mahal**	Entry #1 English Expensive Tagalog mahal Entry#2 English love Tagalog mahal	Entry #1 English Expensive Tagalog mahal Entry#2 English love Tagalog mahal	P

SearchTranslation

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
SearchTranslation	1	Search for a translation that does not exist	**Search Language: "English"** **Search Translation "Word"**	No Entries Found	No Entries found	P
SearchTranslation	2	Search for a common word in different languages	**Input Language: English love, Tagalog, mahal, Spanish, amor** **Search Language: "English"** **Search Translation: "love"**	English: love Tagalog: mahal Spanish: amor	English: love Tagalog: mahal Spanish: amor	P
SearchTranslation	3	Search for a translation that appears in different entries	**Entry 1:** **English, expensive** **Add translations:** **Tagalog, mahal**	English: expensive Tagalog: mahal Spanish: caro	English: expensive Tagalog: mahal Spanish: caro	P

| | | | Spanish, caro

Entry 2:
English, love
Add translations:
Tagalog, mahal
Spanish, amor | English: love Tagalog: mahal Spanish: amor | English: love
Tagalog: mahal
Spanish: amor | |

Export

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
Export	1	Empty entry list	**Give Filename for the Exported Data:** "empty"	Saving data to file name: empty.txt File: empty.txt successfully saved	Saving data to file name: empty.txt File: empty.txt successfully saved	P
Export	2	The filename exceeds 30 characters	**Give FIlename for the Exported Data: pseudopseudohypoparathyroidismm**	Given file name pseudopseudohypoparathyroidismm exceeds max length!	Given file name pseudopseudohypoparathyroidismm exceeds max length!	P
Export	3	Export multiple entries with different translations	**Give Filename for the Exported Data: translations**	Cebuano: mahal Chinese: gui English: expensive Kapampangan: mal Tagalog: mahal Cebuano: gugma Chinese: ai English: love Hiligaynon: gugma Spanish: amor Tagalog: mahal	Cebuano: mahal Chinese: gui English: expensive Kapampangan: mal Tagalog: mahal Cebuano: gugma Chinese: ai English: love Hiligaynon: gugma Spanish: amor Tagalog: mahal	P

Import

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
Import	1	Import from a file that does not exist	**Give Filename to import Data: doesnotexist.txt**	Reading data from file name: doesnotexist.txt File: doesnotexist.txt does not exist!!!	Reading data from file name: doesnotexist.txt File: doesnotexist.txt does not exist!!!	P

| Import | 2 | Importing a file with multiple entries | **Give Filename to import Data: foods**

Entry #1:
 Language   Translation
English: Rice
Filipino: Kanin
Japanese: Gohan

Confirm adding this entry. (y/n): y

Up to

 Entry #5:
Language   Translation
English: Fruit
Filipino: Prutas
Japanese: Kudamono

Confirm adding this entry. (y/n): y | Translation successfully loaded | Translation successfully loaded | P |
| Import | 3 | Importing a filename that exceeds 30 char | **Give Filename to import Data: abcdefghijklmnopqrstuvwxyznowik** | Given file name abcdefghijklmnopqrs tuvwxyznowik exceeds max length! | Given file name abcdefghijklmnopqr stuvwxyznowik exceeds max length! | P |

Translate Menu

TranslateTextInput

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
TranslateTextInput	1	Translate a basic english sentence to Filipino	**Give Language of Source Text: English** **Give Language of Output: Filipino** **Input the Text: I like Rice and Fish**	Text Given is: I like rice and fish Translated Text given is: I like Kanin and Isda You can view the previously used translated words and translated sentence in WordsHistory.txt and SentenceHistory.txt	Text Given is: I like rice and fish Translated Text given is: I like Kanin and Isda You can view the previously used translated words and translated sentence in WordsHistory.txt and SentenceHistory.txt	P
TranslateTextInput	2	Translate a sentence with punctuation marks , and ?	**Give Language of Source Text: English** **Give Language of Output:**	Translated Text given is: Do you want Pan, Sakana, or Gohan?	Translated Text given is: Do you want Pan, Sakana, or Gohan?	P

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
			Japanese Input the Text: Do you want Bread, Fish, or Rice?	You can view the previously used translated words and translated sentence in WordsHistory.txt and SentenceHistory.txt	You can view the previously used translated words and translated sentence in WordsHistory.txt and SentenceHistory.txt	
TranslateTextInput	3	Translate a simple word (single-word input)	Give Language of Source Text: Japanese Give Language of Output: English Input the Text: Kudamono	Translated Text given is: Fruit You can view the previously used translated words and translated sentence in WordsHistory.txt and SentenceHistory.txt	Translated Text given is: Fruit You can view the previously used translated words and translated sentence in WordsHistory.txt and SentenceHistory.txt	P

TranslateTextFile

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
TranslateTextFIle	1	Translate a file with multiple food-related sentences	Give Filename to Read: foodSource Give Language of Source File: English Give Filename of Output: SourceFoodTranslated Give Language of Output: Filipino	I eat Kanin every morning because it gives me energy for the day. She bought fresh Isda from the market to cook for dinner. We baked warm, homemade Tinapay to share with everyone.	I eat Kanin every morning because it gives me energy for the day. She bought fresh Isda from the market to cook for dinner. We baked warm, homemade Tinapay to share with everyone.	p
TranslateTextFIle	2	Translate a file with a sentence of more than 150 characters	Give Filename to import Data: glorious Reading data from file name: glorious.txt (English, Change Filipino Bago) Give Filename to read: mygloriousking	And they got Luka Don A Reaves and then Lebron The real Big 3 They gave up AD because they needed Bago And you gots to say his name His name is Lebro	And they got Luka Don A Reaves and then Lebron The real Big 3 They gave up AD because they needed Bago And you gots to say his name His name is Lebro	P

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
			Give Language of Source File: English **Give Filename to Output: mygloriouskingoutput** **Give Language of Output File: Filipino**			
TranslateTextFIle	3	Translate a file with a terminating character (.)	**Give Filename to import Data: glorious** **Reading data from file name: glorious.txt (English, Change Filipino Bago)** **Give Filename to read: mygloriousking** **(same sentence but with a .)** **Give Language of Source File: English** **Give Filename to Output: mygloriouskingoutput** **Give Language of Output File: Filipino**	And they got Luka Don A Reaves and then Lebron The real Big 3 They gave up AD because they needed Bago. And you gots to say his name His name is Lebron	And they got Luka Don A Reaves and then Lebron The real Big 3 They gave up AD because they needed Bago. And you gots to say his name His name is Lebron	P

ModifyEntryPair - Bonus

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
ModifyEntryPair	1	Modify an existing translation entry	**Action (L->Move Left Index, R->Move Right Index,Q->Stop): Q** **Entry Index = 1** **Choose Entry Pair Number to Edit: 3 }** **New Language: Italian** **New Translation pane**	entry Pair has been edited!	Entry Pair has been edited!	P
ModifyEntryPair	2	Modify an invalid entry pair index	**Action (L->Move Left Index, R->Move Right Index,Q->Stop): Q**	Cannot delete entry pair 4	Cannot delete entry pair 4	P

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
			Entry index = 1 **Choose Entry Pair Number to Edit: 4**			
ModifyEntryPair	3	User cancels modification using STOP!	**Action (L->Move Left Index, R->Move Right Index,Q->Stop): Q'** **Entry index = 1** **Choose Entry Pair Number to Edit: 3** **Add Language (STOP! to terminate command): STOP!**	Cancelled Command	Cancelled Command	P

Check Account- Bonus

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
checkAccount	1	Checks Accountsfile.txt to know if user exists	**Nicos**	Log In to your Account [type Guest if Log in as Guest]: Jula New Account! Hello Julia	Log In to your Account [type Guest if Log in as Guest]: Nicos Ok logged in! Hello Lance	P
checkAccount	2	Checks Accountsfile.txt to know if user exists	**Lance**	Log In to your Account [type Guest if Log in as Guest]: Jula New Account! Hello Julia	Log In to your Account [type Guest if Log in as Guest]: Lance Ok logged in! Hello Lance	P
checkAccount	3	Checks Accountsfile.txt to know if user exists	**Julia**	Log In to your Account [type Guest if Log in as Guest]: Jula New Account! Hello Julia	Log In to your Account [type Guest if Log in as Guest]: Jula New Account! Hello Julia	P

View Most Translated Word - Bonus

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
ViewMostTranslatedWord	1	Checks accountNameWHistory.txt for View Most Translated Word for each account	**Guest**	Most Translated Word: Fish Translated 24 times	Most Translated Word: Fish Translated 24 times	P
ViewMostTranslatedWord	2	Checks Accountsfile.txt to know if user exists	**Lance**	Cannot delete entry pair 4	Most Translated Word: Rice Translated 12times	P
ViewMostTranslatedWord	3	Checks Accountsfile.txt to know if user exists	**Julia**	Cancelled Command	Most Translated Word: Chicken Translated 239 times	P

View Sentence History Word - Bonus

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
ViewSentenceHistory	1	Checks accountNameSHistory.txt for Sentence History	**Guest**	They gave up AD because they needed change And you gots to say his name And they got Luka Don, A. Reaves and then Lebron The real Big 3 They gave up AD because they needed change And you gots to say his name	They gave up AD because they needed change And you gots to say his name And they got Luka Don, A. Reaves and then Lebron The real Big 3 They gave up AD because they needed change And you gots to say his name	P
ViewSentenceHistory	2	Checks accountNameSHistory.txt for Sentence History	**Lance**	They gave up AD because they needed change And you gots to say his name And they got Luka Don, A. Reaves and then Lebron The real Big 3 They gave up AD because they needed change	No Outputs because no History Yet	P

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
					And you gots to say his name	
ViewSentenceHistory	3	Checks accountNameSHistory.txt for Sentence History	**Julia**	Cancelled Command	I eat Gohan every morning because it gives me energy for the day. She bought fresh Sakana from the market to cook for dinner. We baked warm, homemade Pan to share with everyone.	P

View Word History Word - Bonus

Function	#	Description	Sample Input Data	Expected Output	Actual Output	P/F
ViewWordsHistory	1	Checks accountNameWHistory.txt for Sentence History	**Guest**	English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana English: Rice -> Filipino: Kanin English: Fish -> Filipino: Isda English: Bread -> Filipino: Tinapay English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana English: Bread -> Japanese: Pan English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana	English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana English: Rice -> Filipino: Kanin English: Fish -> Filipino: Isda English: Bread -> Filipino: Tinapay English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana English: Bread -> Japanese: Pan English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana	P
ViewWordsHistory	2	Checks accountNameWHistory.txt for Sentence History	**Lance**	English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana English: Rice -> Filipino: Kanin	No Outputs because no History Yet	P

				English: Fish -> Filipino: Isda English: Bread -> Filipino: Tinapay English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana English: Bread -> Japanese: Pan English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana		
ViewWordsHistory	3	Checks accountNameWHistory.txt for Sentence History	**Julia**	English: Rice -> Filipino: Kanin English: Niku -> Filipino: Karne English: Rice -> Filipino: Kanin English: Fish -> Filipino: Isda Japanese: Kudamono -> English: Fruit English: Rice -> Filipino: Kanin English: Fish -> Filipino: Isda English: Bread -> Filipino: Tinapay English: Change -> Filipino: Bago English: Change -> Filipino: Bago English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana English: Bread -> Japanese: Pan	English: Rice -> Filipino: Kanin English: Niku -> Filipino: Karne English: Rice -> Filipino: Kanin English: Fish -> Filipino: Isda Japanese: Kudamono -> English: Fruit English: Rice -> Filipino: Kanin English: Fish -> Filipino: Isda English: Bread -> Filipino: Tinapay English: Change -> Filipino: Bago English: Change -> Filipino: Bago English: Rice -> Japanese: Gohan English: Fish -> Japanese: Sakana English: Bread -> Japanese: Pan	P