

## Lab Assignment 17

Write a program that accepts two files. The first file contains sentences and the second file contains a list of words (correct\_spelled). Your program will take one sentence at a time then check each word in the sentence against all the words in the correct\_spelled list and write the correct sentence in a new file named as corrected\_file file. Rules for correction are as follows:

- If a word in the original sentence matches exactly with a word in the correct\_spelled then the word is not modified and it should be directly copied to the output file.
- If a word in the sentence can match a word in the correct\_spelled list by replacing, inserting, or deleting a single character, then that word should be replaced by the correct word in the correct\_spelled list.
- If neither of the two previous conditions is true, then the word in the original sentence should not be modified and should be directly copied to the corrected file.

Notes:

- Do not spell check one or two letter words (copy them directly to the corrected file).
- In case of a tie use the first word from the correct\_spelled list.
- Ignore capitalization, i.e. consider capital letters to be the same as lower case letters.
- All characters in the output string should all be in lower case letters.
- Assume that the input string only includes alphabetic characters and spaces. (az and A-Z)
- Remove extra spaces between the words.
- Remove spaces at the start and end of the output string.

Examples:

### Original.txt

This is the first case. programming is fun and easy. This is very easy. We love Python

### Correct\_spelled.txt (each word separated by comma)

that,first,case,car,programming,this,fun,easy,book,is,very,easy,we,Love,In,Python

### Corrected\_file.txt

this is the first case. programming is fun and easy. this is very easy. we love python

Notice:

In the first example both 'case' and 'car' could replace the 'cas' in the original sentence, but 'case' is selected because it was encountered first.