Technical Challenge – Software engineering

**Instructions**:

A client has emailed you in distress. They have been using a wordlist file to generate names for a project, however someone has hacked into the server storing this file and has messed with the words, adding in characters seemingly randomly and messing with the spelling of the words.

Fortunately, the client has a backup wordlist file to compare to, and they want you to do some sleuthing. They have a hunch that there is a passcode hidden somewhere in the corrupted wordlist. Can you find it?

The client wants you to write a program that can obtain the passcode from the corrupted wordlist file, and they would also like a list of all words in the file which had their letters changed. To do this, you will need to firstly remove all the extra symbols/characters added to the words in the corrupted wordlist, and then find the differences in the spelling of the words between the two wordlist files.

**Note:**

You are required to design and program a solution for finding the passcode hidden in the corrupted wordlist file. You can use any programming language you wish for this assignment, **however it is very important that you explain your working clearly via developer comments**. If you do not have access to software that allows you to write code, feel free to use pseudocode, but make sure you explain your process! When you have finished your assignment, please email the code files with developer comments to meredith.ward@auticon.com.

Best of luck!