**Assignment:**

Please select 2 of the following 3 problems and implement a solution in the language of your choice.

Please feel free to ask any questions.

Treat this as a small production application regarding code quality and implementation.

Email the source code and runnable executable along with a brief description of your solution.

Please list any assumptions you make in your solution description.

**Problem 1:**

Create a program that will traverse all the folders based on a given path, and print out the names of all text files that reside in the lowest depth folder.

Given

C:\Temp

Hello.txt

\Foo

Goodbye.txt

If the above folder structure existed and the user entered C:\Temp as the path, the output would be:

Goodbye.txt

**Problem 2:**

Given 2 trains approach each other from opposite directions on parallel tracks

The user enters the distance (miles) between the trains

The user enters the speed of each of the two trains (mpg)

Output how many minutes until the two trains pass each other and the distance each train will travel.

**Problem 3:**

Given a dictionary of words

And user entered word to compare against

When comparing the given word against the dictionary

Then output all words in the dictionary that exist in the given word

E.g. StartBurst would output Star and Burst if those words were in the dictionary.