**Goal:** Write an application with a Windows Form that will prompt a user for a folder which contains one or more flat text files. The application will generate a total word count for all the files and place the output in a file designated by the user. You may work with two or three partners (no more than four to a group)

**Points: 20**

**Basic Expectations:**

Upon completion you must provide two zip files. The first is the Visual Studio solution. The second is a zip folder containing the flat text files you pulled from Gutenberg.org (see below).

To start, go to <http://www.gutenberg.org/> and find the works of a specific author. Download at least three of the works as separate flat text files into a single folder.

Your application should accept the following inputs from the user:

* The name of the folder that contains the flat text files.
* The location of an output file.
* For both of the items above, the user should be able to use a dialog box.
* A button that starts processing.

When processing starts, the mouse pointer should turn into the timeout version. (Google “c# mouse change cursor” ) Upon completion of processing, the output will be a flat text file and it should list each unique word found and how often it was found among all the works in the input folder. (This implies an ongoing loop of opening files.) There should also be a message box telling the user when processing is completed.

Other expectations are as follows:

Each request must be logged using log4net. The log file name must be processLog.txt in the same location of the executable. (See the log4net documentation.)

Exception handling must be used in the event there is a problem using a file or folder.

Research how to get a list of files from a known folder at <https://docs.microsoft.com/en-us/dotnet/api/system.io.directory.getfiles?view=netframework-4.7.2> and use that to gain access to the files. (Note, you get an array of strings (i.e. file names) you will work through).

The user interface (the windows form) must be developed in a separate project from that part which does the file processing. If you develop the processing portion separately, make sure you submit that solution as well.