Lab #2

Programming and Algorithms

1. Review the *FULL FILE ANALYSIS* program and add two options to the program:
   1. Add an option to this program to specific the name of the file that you wish to do an analysis on.
   2. Add an option to this program to specific to number of most frequently occurring words from the file are printed out.

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| **What is the filename you wish to analyse:** ‘CompleteShakespeare.txt’  **How many more frequently occurring words:** 15 |

which should return:

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| The file 'CompleteShakespeare.txt' has:  5457676 characters  124614 lines  902892 words    The top 15 most occurring words are:  1. 27524 the  2. 26674 and  3. 20115 i  4. 19189 to  5. 18224 of  6. 14379 a  7. 13578 you  8. 12461 my  9. 11095 that  10. 10994 in  11. 9355 is  12. 8684 not  13. 8215 for  14. 7786 with  15. 7663 me |

1. Review the *WEB CRAWLER* program and add three options to the program:
   1. Add an option to this program to specific the web address.
   2. Add an option to this program to specific the search term.
   3. Add an option to this program to specific the maximum number of pages.

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| **What is the website you want to start with:** ‘http://www.dit.ie’  **What is a search term you are looking for**: “Registration”  **How many pages can be visited:** 15 |

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| e-mail me a completed solution in a Word document.  e-mail to [Damian.X.Gordon@tudublin.ie](mailto:Damian.X.Gordon@tudublin.ie) with subject heading “DT249 PaA Lab #2” |