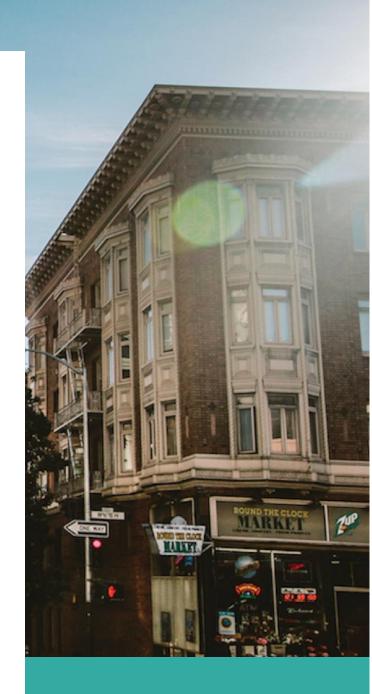


Intermediate Programing(prg521)

Group activity 5 2020



APRIL 13

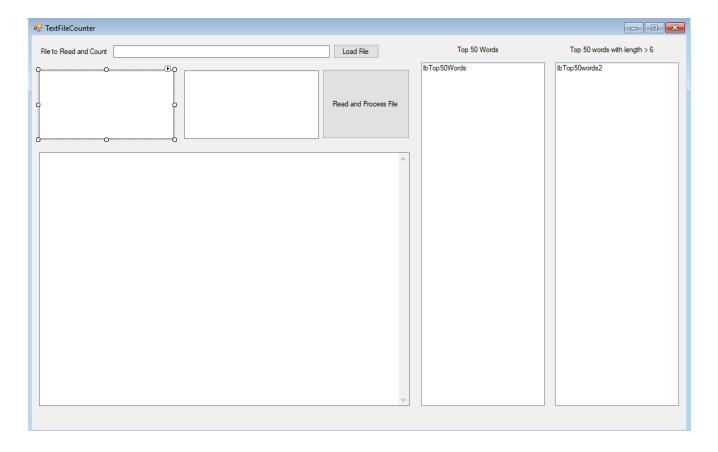
Ctu Training Solutions
Authored by: Albert Michael Ludick



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Program Content



Source Code:

Question 1

class ReadandCount:

```
private void btnLoadFile Click(object sender, EventArgs e)
   * this button open a window to prompt user to find the textfile path
   *basically this is to find the file
   *and adds the path to the txtLoadFile textbox
    *and adds the file path to path field
   try
   {
        OpenFileDialog chooseFile = new OpenFileDialog();
        chooseFile.ShowDialog();
        path = chooseFile.FileName;
        txtLoadFile.Text = path;
   catch (FileNotFoundException ex)
        ErrorHandler(ex);
private void btnResults_Click(object sender, EventArgs e)
     * and uses a regular expression to filter out anything that is not a letter or number
     * splist the text from textfile in a string array
```

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* and the code also displays the how much a word occured in the file as output in the

* lbTop50Words listbox as well as greater then 6 in the lbTop50words2 listbox

* and counts process time of the whole excution of the program

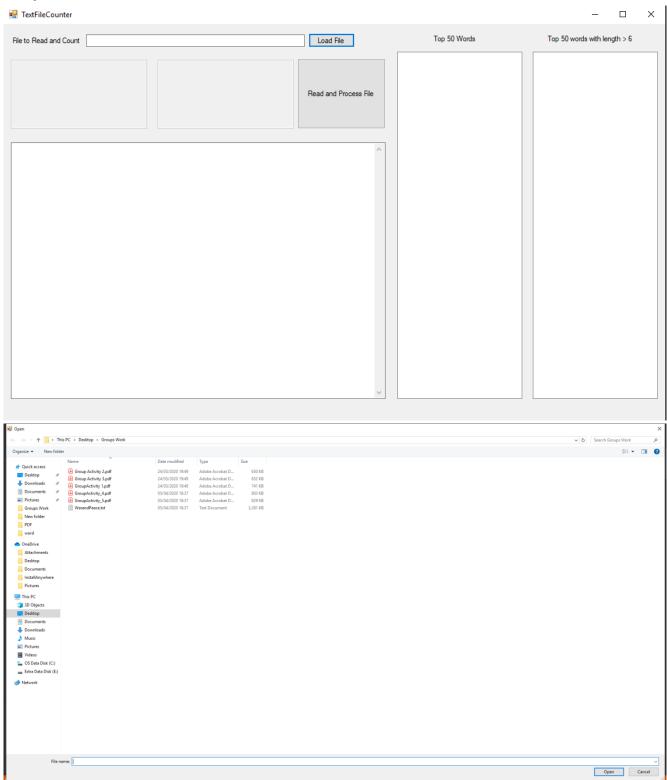
```
try
    try
        var start = DateTime.Now;
        string Line = File.ReadAllText(path);
        txtTextFile.Text = Line;
        Regex rexex = new Regex("[^a-zA-Z0-9]");
        Line = rexex.Replace(Line, " ");
        var wordsCount = Line.Split(new char[] { ' ' }, StringSplitOptions.RemoveEmptyEntries);
        wordsCount = wordsCount.Where(w => !string.IsNullOrWhiteSpace(w)).ToArray();
        txtCountLines.Text = $"Lines in file:{File.ReadAllLines(path).Count() + 1}" +
            $"{Environment.NewLine}words in file:{wordsCount.Count() + 1}";
        Dictionary<string, int> frequancies = new Dictionary<string, int>();
        foreach (string word in wordsCount)
            if (frequancies.ContainsKey(word))
 foreach (string word in wordsCount)
     if (frequancies.ContainsKey(word))
          frequancies[word] += 1;
     else
     {
          frequancies[word] = 1;
 foreach (KeyValuePair<string, int> entry
  foreach (KeyValuePair<string, int> entry in frequancies)
      string word = entry.Key;
      int frequency = entry.Value;
var List = frequancies.OrderByDescending(x => x.Value).Take(50);
 foreach (var word in List)
     lbTop50Words.Items.Add($"{word.Key} occurred {word.Value} Times");
   lbTop50Words.Items.Add($"{word.Key} occured {word.Value} Times");
var List2 = frequancies.OrderByDescending(x => x.Value).Where(x => x.Key.Length > 6).Take(50);
foreach(var word in List2)
    lbTop50words2.Items.Add($"{word.Key} occurred {word.Value} Times");
```

6

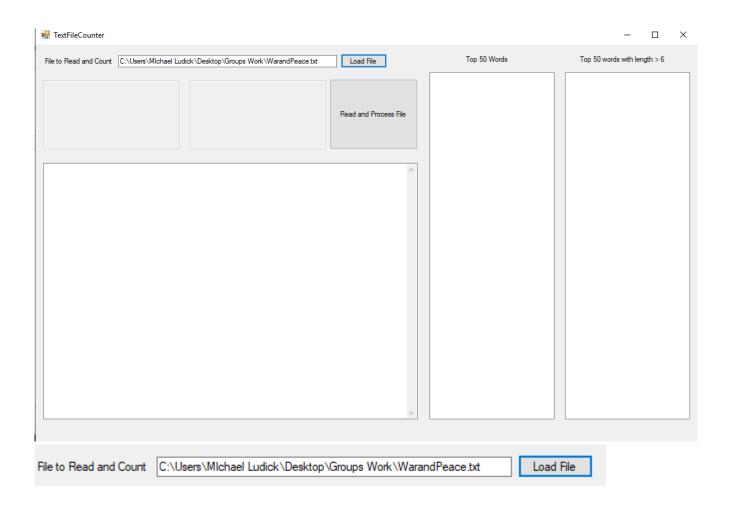
```
var stop = DateTime.Now;
var TotalTime = stop - start;
txtTime.Text =$"Start Time:{start.ToString("HH:mm:ss")}{Environment.NewLine}" +
    $"End Time:{stop.ToString("HH:mm:ss")){Environment.NewLine}" +
    $"Overal Process Time: {TotalTime.TotalSeconds} seconds";
MessageBox.Show($"Processing and counts Completed! " +
    $"{Environment.NewLine}{TotalTime.TotalSeconds} Seconds");
     catch (FileNotFoundException ex)
         ErrorHandler(ex);
catch (IOException ex)
     ErrorHandler(ex);
public void ErrorHandler(Exception ex)
    //to handel all exception that can occure
   //at compile or runtime
    MessageBox.Show($"you have encounterd(ex)",
        "Error Message",
        MessageBoxButtons.OK,
        MessageBoxIcon.Error);
```

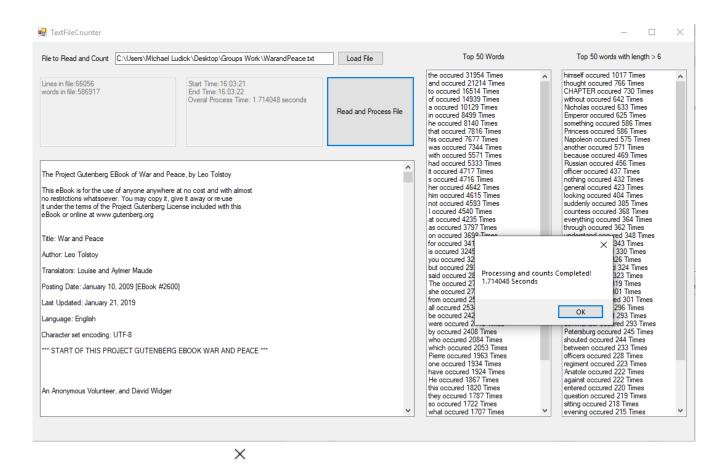
Output of all questions

Output of Question 1:

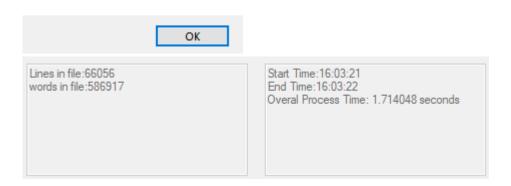


Group Activity 2.pdf	24/03/2020 19:49	Adobe Acrobat D	650 KB
Group Activity 3.pdf	24/03/2020 19:49	Adobe Acrobat D	652 KB
GroupActivity 1.pdf	24/03/2020 19:48	Adobe Acrobat D	741 KB
GroupActivity_4.pdf	05/04/2020 18:37	Adobe Acrobat D	803 KB
GroupActivity_5.pdf	05/04/2020 18:37	Adobe Acrobat D	829 KB
■ WarandPeace.txt	05/04/2020 18:37	Text Document	3,281 KB





Processing and counts Completed! 1.714048 Seconds



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An Anonymous Volunteer, and David Widger

Top 50 Words Top 50 words with length > 6 the occured 31954 Times himself occured 1017 Times and occured 21214 Times thought occured 766 Times CHAPTER occured 730 Times to occured 16514 Times of occured 14939 Times without occured 642 Times a occured 10129 Times Nicholas occured 633 Times in occured 8499 Times Emperor occured 625 Times he occured 8140 Times something occured 586 Times that occured 7816 Times Princess occured 586 Times his occured 7677 Times Napoleon occured 575 Times was occured 7344 Times another occured 571 Times with occured 5571 Times because occured 469 Times had occured 5333 Times Russian occured 456 Times it occured 4717 Times officer occured 437 Times s occured 4716 Times nothing occured 432 Times general occured 423 Times her occured 4642 Times him occured 4615 Times looking occured 404 Times not occured 4593 Times suddenly occured 385 Times Loccured 4540 Times countess occured 368 Times at occured 4235 Times everything occured 364 Times as occured 3797 Times through occured 362 Times on occured 3698 Times understand occured 348 Times for occured 3412 Times soldiers occured 343 Times is occured 3245 Times princess occured 330 Times you occured 3236 Times herself occured 326 Times but occured 2939 Times evidently occured 324 Times said occured 2842 Times already occured 323 Times The occured 2767 Times feeling occured 319 Times replied occured 301 Times she occured 2735 Times from occured 2544 Times expression occured 301 Times all occured 2534 Times position occured 296 Times be occured 2428 Times anything occured 293 Times were occured 2419 Times commander occured 293 Times Petersburg occured 245 Times by occured 2408 Times who occured 2084 Times shouted occured 244 Times which occured 2053 Times between occured 233 Times officers occured 228 Times Pierre occured 1963 Times one occured 1934 Times regiment occured 223 Times have occured 1924 Times Anatole occured 222 Times He occured 1867 Times against occured 222 Times this occured 1820 Times entered occured 220 Times they occured 1787 Times question occured 219 Times so occured 1722 Times sitting occured 218 Times what occured 1707 Times evening occured 215 Times

Bibliography & References:

Websites:

GeeksforGeek: https://www.geeksforgeeks.org/ C-Sharp corner: https://www.c-sharpcorner.com/

Books:

Microsoft Visual C# Step by Step, 9th Edition

Appendix

No Extra files or media. Except for the project itself