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CST-117

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Out of Class 3 Logic

* Used a rich box to display to converts all words to lowercase, find first and last word alphabetically, find the longest word, and Finds the word with the most vowels
* Displays all the statistics in richbox

public partial class Form1 : Form

{

private StreamWriter sw;

public Form1()

{

InitializeComponent();

}

private void Form1\_Load(object sender, EventArgs e)

{

}

private void button1\_Click(object sender, EventArgs e)

{

//Convert to lowercase

//first word alphabetically

//last word alphabetically

//longest word

//most vowels

//strings

string longestWord = " ";

string firstAlpha = " ";

string lastAlpha = " ";

string mostVowel = " ";

//change2

int vowelCt = 0;

sw = System.IO.File.CreateText("Sample.out");

if (this.openFileDialog1.ShowDialog() == DialogResult.OK)

{

System.IO.StreamReader sr = new System.IO.StreamReader(openFileDialog1.FileName);

string allText = sr.ReadToEnd();

this.richTextBox1.Text = allText;

string[] words = allText.Split();

for (int i = 0; i < words.Length; i++)

{

this.richTextBox1.Text += words[i] + "\n";

words[i] = words[i].ToLower();

sw.Write(words[i] + " ");

//is this the first word?

if (i == 0)

{

longestWord = words[i];

firstAlpha = words[i];

lastAlpha = words[i];

}

else if (longestWord.Length < words[i].Length)

longestWord = words[i];

//first alphabetically

if (firstAlpha.CompareTo(words[i]) > 0)

firstAlpha = words[i];

//last alphabetically

if (lastAlpha.CompareTo(words[i]) < 0)

lastAlpha = words[i];

int vCtMax = 0;

for (int j = 0; j < words[i].Length; j++)

if (words[i][j] == 'a' ||

(words[i][j] == 'e' ||

(words[i][j] == 'i' ||

(words[i][j] == 'o' ||

(words[i][j] == 'u')))))

vowelCt++;

if (vowelCt > vCtMax)

{

vCtMax = vowelCt;

mostVowel = words[i];

}

}

richTextBox1.Text = "Longest Word: " + longestWord + " First Word: " + firstAlpha + " Most Vowels: " + mostVowel + " Last Alpha: " + lastAlpha;

}

sw.Close();

}

}

}