**Peer Evaluation for Lab 2 – Chapter 9 (8 in 133 text)**

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| Your name: (Your lab is the one being evaluated) | Amanda Akins |
| Name(s) of peer evaluator(s) | Chris Henry |
| Date: | 5/2/16 |

Instructions  
You should have already completed Lab 2. After you and a peer have evaluated your work, you will submit this evaluation along with screen shots and source code indicated in moodle. You may make corrections to your work as a result of the evaluation.

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| ***In Class Exercises – Tutorial 8-1*** | |
| Completed Password Application? Screen shot included? Source code includes several methods that are used to validate the password? Source code includes event handler that calls the methods appropriately? | Yes |
| ***In Class Exercises – Tutorial 8-2*** | |
| Completed Seating Phone Number Format application? Screen shot included? Source code for event handler and methods is included? | Yes |
| ***In Class Exercises – Tutorial 8-4*** | |
| Completed CSV application? Screen shot included? Source code for event handler is included? EXTRA CREDIT: Reads file into 2d array? Uses methods to manipulate the 2 d array? Calls those methods appropriately? | Yes |

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| --- | --- |
| ***String Stuff Problem*** | |
| Switch Case: Method completed? Called correctly in event handler? Produces the correct results? | Yes |
| Reverse: Method completed? Called correctly in event handler? Produces the correct results? | Yes |
| Pig Latin: Method completed? Called correctly in event handler? Produces the correct results? EXTRA CREDIT: Deals with multiple words? Deals with upper and lowercase chars? Deals with punctuation? Deals with more complicated logic re starting with a vowel? | Yes |
| Shift Cypher: Method completed? Called correctly in event handler? Produces the correct results? EXTRA CREDIT: Deals with multiple words? Deals with upper and lowercase chars? Deals with punctuation? | Yes – but you basically did it for me. |
| Substitution Cypher: Method completed? Called correctly in event handler? Produces the correct results? EXTRA CREDIT: Deals with multiple words? Deals with upper and lowercase chars? Deals with punctuation? | I tried |

|  |  |
| --- | --- |
| ***Programming style for all programs*** | |
| Is proper indentation used? Is each event handler indented properly? | Yes |
| Are comments used appropriately? | Yes |
| Do variable names use camel case? (camelCase for example) | Yes |
| Do method names use Title Case? (or Pascal Case?) Are method names verbs (rather than nouns)? | Yes |

General comments and notes:

SubCypher is doing something… Just not what it’s supposed to. ☹

Screen Shots and Source Code

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Windows.Forms;

namespace String\_Stuff

{

public partial class stringForm : Form

{

public stringForm()

{

InitializeComponent();

}

// EXTRA CREDIT: cool user interface, let user pick code (text boxes)

// EXTRA CREDIT: Make work w/uppercase; keep spaces and punctuation.

// EXTRA CREDIT: Pig Latin rules - first char vowel? More than one consantent, move to end. Let user say how much to shift.

// Switches every uppercase to lowercase and vice versa.

private string SwitchCase(string input)

{

string output = "";

foreach (char c in input)

{

if (char.IsUpper(c))

output += char.ToLower(c);

else

output += char.ToUpper(c);

}

return output;

}

private string Reverse(string input)

{

string output = "";

for (int i = input.Length-1; i >= 0; i--)

output += input[i];

return output;

}

private string PigLatin(string input)

{

string output = "";

output = input.Substring(1) + input[0] + "ay";

return output;

}

// Use split function

private string PigSentence(string input)

{

string output = "";

//Get the tokens from the string.

string[] tokens = input.Split(null);

// Display each token.

foreach (string s in tokens)

output += PigLatin(s) + " ";

return output;

}

private string ShiftCypher(string input, int charsToShift)

{

string output = "";

string alpha = "abcdefghijklmnopqrstuvwxyz";

foreach (char c in input)

{

int index = alpha.IndexOf(c);

if (index == -1 )

{

if (char.IsUpper(c))

{

char c2 = char.ToLower(c);

index = alpha.IndexOf(c2);

index += charsToShift;

c2 = alpha[index];

c2 = char.ToUpper(c2);

output += c2;

}

else

output += c;

}

else

{

index += charsToShift; // find the index of char in alphabet and add

index = index % 26;

output += alpha[index]; // Concatenate to output the char. from alpha at (new) index

}

}

return output;

}

// EXTRA CREDIT:

// Two string variables

// for each char in input

// index = index of char in alpha

// output += char at same index in "charsToSub"

private string SubCypher(string input, string charsToSub) //input = what's the string you want to encode, charsToSub = what's the code you want to use.

{

string output = "";

string alpha = "abcdefghijklmnopqrstuvwxyz";

string sub = "zyxwvutsrqponmlkjihgfedcba";

foreach (char c in input)

{

int index = alpha.IndexOf(c);

output += charsToSub.IndexOf(sub);

}

return output;

}

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

{

string input = inputTextBox.Text;

switchCaseTextBox.Text = SwitchCase(input);

reverseTextBox.Text = Reverse(input);

pigLatinTextBox.Text = PigSentence(input);

shiftTextBox.Text = ShiftCypher(input, 4);

subTextBox.Text = SubCypher(input, input);

}

}

}