

Programming II

Maximum points for
this work is 25 marks.

Assignment 4 – Implementing a Windows Forms Application - Due in Week 13

Once you are done with your program, upload it to eCentennial under Assessments / Assignment / Assignment 4

There were lots of questions about the readme file. This is a text file that will help me in grading your work. Right-click your project and add a new item, select text file and then call it readme.txt. Now you may type responses to the items that are highlighted.

The rubrics is as follows

| Marks | Task description |
|-------|--|
| 1 | Show a splash screen |
| | Main form consisting of |
| 1 | Buttons, Labels, Textboxes, Radio Buttons, Checkboxes, TabControls, PictureBox, TableLayout, FlowLayout (at least six) [put in readme file] |
| 2 | Listbox, Combobox, TreeView (at least one) [put in readme file] |
| 2 | Dictionary, Queue, Stack, Linklist, List (at least two) [put in readme file] |
| 1 | DataGridView You must have data at startup. |
| 2 | The above data must be read from either a json, xml or text file [put in readme file] |
| 2 | Functionality: Must be able to add/remove/modify data to your data store at run time. |
| 2 | Second form communicating with the main form You state what data is sent or received to the main form. [put in readme file] |
| 4 | Technical difficulty (at least 2 4 items) An item is something that was not covered directly in class. You must provide a list in your submission. [put in readme file] |
| 2 | Linq queries (at least four) Must not all be a simple .Where() filter. [put in readme file] |

| | |
|-------|--|
| 1 | Create your own generic method or class. Using any .NET generic collection does not count. [put in readme file] |
| 1 | Code organisation and correctness |
| 2 | Esthetics. |
| 2 | Usability. Does your design make the user feel that he is in control? How easy is it to use? Can you use it without a mouse? How does the tabs, enter and the escape keys work? Does it minimize user errors? Data entry forms must be pre-filled with data Your program must not crash! |
| Total | 25 |

Visual Studio generated code must be in its own class

You may select one of the topics below:

1. GPA Calculator
2. BMI Calculator (must work with both imperial and metric units)
3. Music Player (You don't have to actually play music, but to organized playlist etc.)
4. Expense tracker
5. Fitness tracker