(https://mycanvas.mohawkcollege.ca/courses/92934/files/17176704/download?download_frd=1))
rewrite Lab 1 so that it:

- Eliminates the need for **Get()**/**Set()** methods in the *Employee* class by using properties instead
- Eliminates the array (and the arbitrary limit) that stores all of the *Employee* objects, and instead utilizes a generic **List<T>** collection
- Eliminates the **Sort()** method that you researched and instead relies on the built-in **Sort()** method of the **List<T>** collection
- Makes use of the *IComparable* interface so that each field of the *Employee* class can be sorted
- Alternatively, you can use a **lambda expression** for sorting instead of the *IComparable* technique
- Looks and behaves identically to the solution for Lab 1 but utilizes the above changes
- Contains a highly modularized **Main()** method

Part B: A Tangled Web

Project Name: <u>Lab4b</u>

(right-click to view)

Write a Windows Form App (.NET Framework) that:

- Makes use of a GUI interface that has **menu options**
- The **File=>Load** menu option displays an *OpenFileDialog* to allow the user to select a valid *HTML* file
- Makes use of the *OpenFileDialog.Filter* property to allow only HTML files to be selected
- Uses a generic **Stack<T>** collection to read the *HTML* file and determine if the *HTML* container tags are properly balanced
  (that is, each opening tag has a corresponding closing tag)
- Displays a status indicating whether the container tags are balanced, or not balanced
- Ignores certain *HTML* tags that are not container tags (such as <img>, <hr> or <br>)
- Contains a modularized **Process=>Check Tags** method
- You may download this **sample program (https://mycanvas.mohawkcollege.ca/courses/92934/files/17687810/download)**
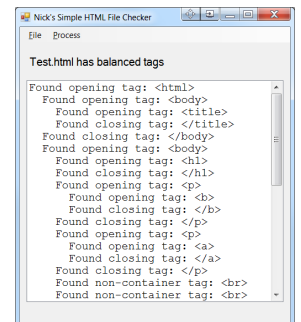 ↓
  (https://mycanvas.mohawkcollege.ca/courses/92934/files/17687810/download?download_frd=1) for a demonstration of program behaviour
- Here are examples of good and bad test files that you can use to test your program: **TestFiles.zip (https://mycanvas.mohawkcollege.ca/courses/92934/files/17176765/download)**
  ↓

**(https://mycanvas.mohawkcollege.ca/courses/92934/files/17176765/download?
download_frd=1)** and **MoreTestfiles.zip
(https://mycanvas.mohawkcollege.ca/courses/92934/files/17687824?wrap=1)**
↓
**(https://mycanvas.mohawkcollege.ca/courses/92934/files/17687824/download?
download_frd=1)**

Marking Scheme

Documentation: Comments, Naming Conventions	/ 5
Part A: It Takes All Sorts	
Properties:	/ 2
Generic List: Sort, IComparable/Lambda	/ 3
Identical Behaviour:	/ 2
Part B: A Tangled Web	
Data Entry: File Name, Reads File	/ 3
Generic Stack: Stores Tags	/ 4
Output: Message Displayed	/ 1
Total:	**/ 20**