Programming 02 COMP-123

## LAB ASSIGNMENT #5 - FILE IO

Due Date: Week 12 Marks/Weightage: 20/10%

**Purpose:** The purpose of this Lab Assignment is to:

Practice the use of FILE IO

**References:** Read the course's text book **chapter 14 FILE IO** and the lecture notes/ppts. This material

provides the necessary information that you need to complete the exercises.

**Instructions**: Be sure to read the following general instructions carefully:

This lab should be completed individually by all the students. You will have to demonstrate your solution in a scheduled lab session and submitting the project **through drop box link on e-Centennial**.

You must name your solution according to the following rule:

 $First Name-Last Name\_Section Number\_COMP123\_Labnumber$ 

For Example: Joh-Smith\_Sec001\_COMP123\_Lab05

Each exercise should be placed in a separate namespace named firstname-last-name\_exercise1, firstname-last-name\_exercise2 etc.

Submit your assignment in a **zip file** that is named according to the following rule:

 $First Name-Last Name\_Section Number\_COMP123\_Labnumber.zip$ 

Example: Joh-Smith\_Sec001\_COMP123\_Lab05.zip (if your section is 001..)

Apply the naming conventions for variables, methods, classes, and packages:

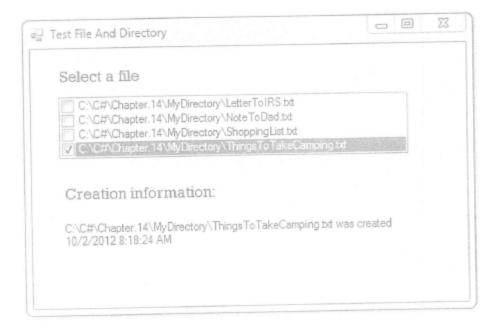
- variable names start with a lowercase character for the first word and uppercase for every other word
- classes start with an uppercase character of every word
- namespaces use only *lowercase* characters
- methods start with a uppercase character for the first word and uppercase for every other word

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Exercise #1: [10 marks]

Using Visual Studio, create a Form like the one shown in Figure 14-38. Specify a directory on your system, and when the Form loads, list the files the directory contains in a CheckedListBox. (You first saw an example of a CheckedListBox in Chapter 12.) Allow the user to click a file's corresponding check box and display the file's creation date and time. (Each time the user checks a new filename, display its creation date in place of the original selection.) Save the project as TestFileAndDirectory2. Create as many files as necessary to test your program.



Exercise #2: [10 marks]

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a. Create a program named WriteInventoryRecords that allows you to enter data for items you sell at an online auction site and saves the data to a file. Create an Inventory class that contains fields for item number, description, and asking price.

- b. Create a program named ReadInventoryRecords that reads the file created in Exercise 4a and displays each item's data on the screen.
- c. Create a program named FindInventoryRecords that prompts the user for an item number, reads the file created in Exercise 4a, and displays data for the
- d. Create a program named FindInventoryRecords2 that prompts the user for a minimum selling price, reads the file created in Exercise 4a, and displays all the records containing a price greater than or equal to the entered price.
- a. Create a program named CustomizeAForm that includes a Form for which a user can select options for the background color, size, and title. The Form should look like the one shown in Figure 14-39. Change each feature of the Form as the user makes selections. After the user clicks the "Save form settings" Button, save the color, size, and title as strings to a file and disable the button.

YellowForm

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## **Evaluation:**

Functionality	
Correct implementation of classes	70%
(instance variable declarations,	
constructors, getter and setter	
methods etc.)	
Correct implementation of driver	20%
classes (declaring and creating objects,	
calling their methods, interacting with	
user, displaying results)	
Comments, correct naming of	5%
variables, methods, classes, etc.	
Friendly input/output	5%
Total	100%

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