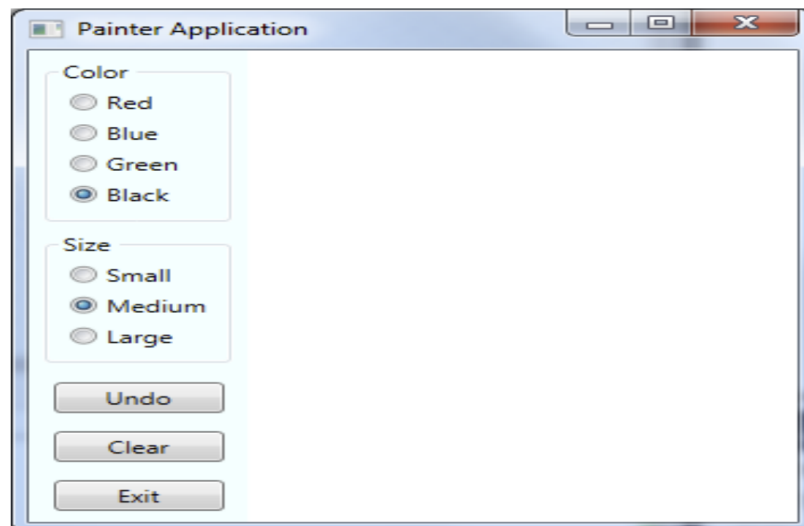


Purpose: Practice the use of Windows Presentation Foundation (WPF) and Databinding, ADO.NET Entity Framework

Exercise-01: Enhance the **Painter** application which has been covered in the Lab. Add the following new radio buttons and buttons as shown in the screen shots and add their functionality also. Exception handling should be implemented. [5 marks]



Exercise 02:

[10 marks]

Build the following Dental Payment System App using WPF. You can use appropriate layout controls. Implement the following business requirements:

If patient is Senior, then give 10% discount, if he/she is in category –Kids/Youth then 15% discount. Add one combo box (not shown in screen shot) under Address textbox (a drop down for Provinces – Alberta – HST 7%, Ontario- HST 13% and Quebec- HST 6%). As per the selection of the province, Total Charges should be calculated accordingly. (Adding GST and giving discount)

Question 03:**[15 marks]**

(Restaurant Bill Calculator) A restaurant wants a **WPF app** that calculates a table's bill. The app should display all following menu items (shown below) in four Combo Boxes. Each Combo Box should contain a category of food offered by the restaurant (Beverage, Appetizer, Main Course and Dessert).

The user can choose from one of these Combo Boxes to add an item to a table's bill. As each item is selected in the Combo Boxes, add to the DataGrid Control, and add the price of that item to the bill. The user can click the Clear Bill Button to restore the Subtotal:, Tax: and Total: fields to \$0.00. Add your student name and your company's (i.e., Centennial College) logo at the status bar, when user clicks the logo, company's website is opened in Internet explorer.

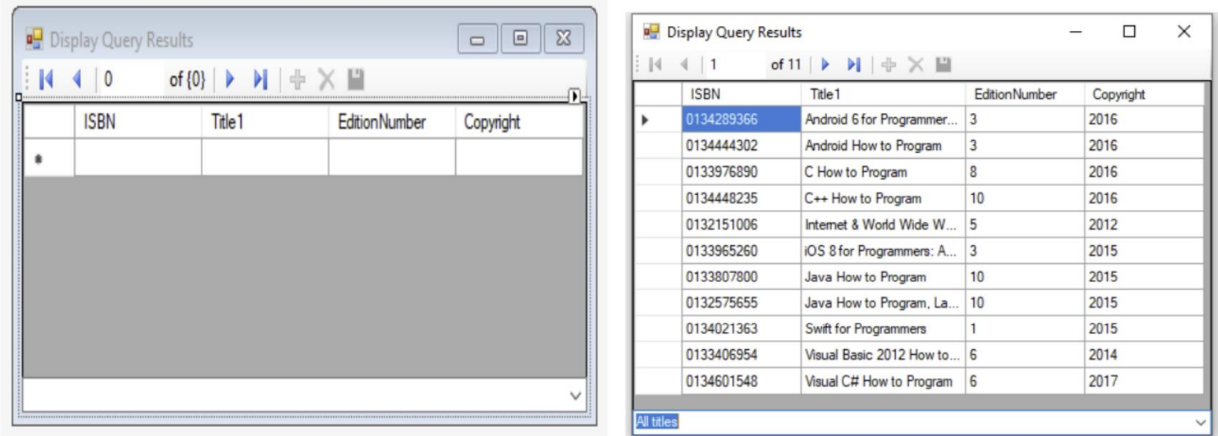
Name	Category	Price	Name	Category	Price
Soda	Beverage	\$1.95	Chicken Alfredo	Main Course	\$13.95
Tea	Beverage	\$1.50	Chicken Picatta	Main Course	\$13.95
Coffee	Beverage	\$1.25	Turkey Club	Main Course	\$11.95
Mineral Water	Beverage	\$2.95	Lobster Pie	Main Course	\$19.95
Juice	Beverage	\$2.50	Prime Rib	Main Course	\$20.95
Milk	Beverage	\$1.50	Shrimp Scampi	Main Course	\$18.95
Buffalo Wings	Appetizer	\$5.95	Turkey Dinner	Main Course	\$13.95
Buffalo Fingers	Appetizer	\$6.95	Stuffed Chicken	Main Course	\$14.95
Potato Skins	Appetizer	\$8.95	Apple Pie	Dessert	\$5.95
Nachos	Appetizer	\$8.95	Sundae	Dessert	\$3.95
Mushroom Caps	Appetizer	\$10.95	Carrot Cake	Dessert	\$5.95
Shrimp Cocktail	Appetizer	\$12.95	Mud Pie	Dessert	\$4.95
Chips and Salsa	Appetizer	\$6.95	Apple Crisp	Dessert	\$5.95
Seafood Alfredo	Main Course	\$15.95			

Question 04: Database(s) which you need for this assignment are on D2L/Blackboard **[10 marks]**

Create a Windows Form App/WPF to manipulate the data within Books database and displays the results of the following queries: (Refer code example/project covered in the class – JoinQueries)

1. Get a list of all the titles (title and edition number) and the authors (author id and first name) who wrote them. Sort the results by title.
2. Get a list of all the authors grouped by titles, sorted by title; for a given title sort the author names alphabetically by last name then first name.

Question 05: Following project DisplayQueryResult has been covered in the class. *[10 marks]*



The left screenshot shows a window titled "Display Query Results" with a toolbar and a table with headers: ISBN, Title1, EditionNumber, and Copyright. The table is currently empty, showing only the header row.

The right screenshot shows the same window with 11 rows of data. The first row is selected. The data is as follows:

ISBN	Title1	EditionNumber	Copyright
0134289366	Android 6 for Programmer...	3	2016
0134444302	Android How to Program	3	2016
0133976890	C How to Program	8	2016
0134448235	C++ How to Program	10	2016
0132151006	Internet & World Wide W...	5	2012
0133965260	iOS 8 for Programmers: A...	3	2015
0133807800	Java How to Program	10	2015
0132575655	Java How to Program, La...	10	2015
0134021363	Swift for Programmers	1	2015
0133406954	Visual Basic 2012 How to...	6	2014
0134601548	Visual C# How to Program	6	2017

You need to enhance it by doing the following:

- Add query in the drop down which displays all books with edition number > 5
- Add query in the drop down which displays all the books on Java