Lab 6 Exercises

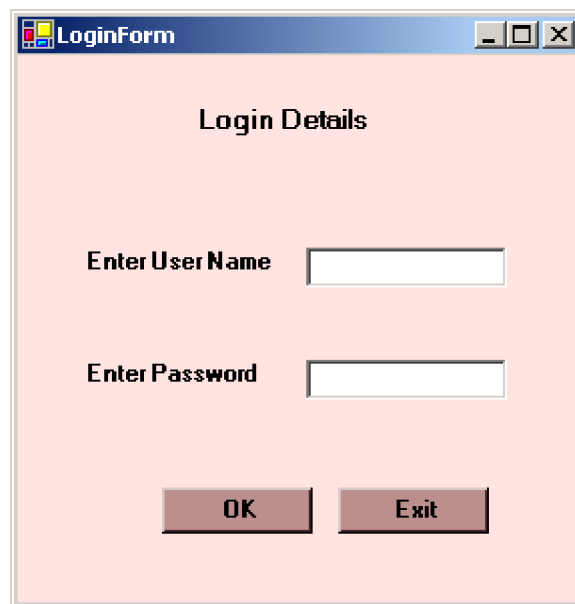## Q1

Create a Windows application having two forms. The first form should allow an administrator to login by accepting user name and password. The password should not be readable. The form should check if the user name is "Admin" as well as the password is "Admin" and only then allow to proceed further. If username and password is not matching, appropriate error message should be displayed. The form can have a user interface as shown in Figure 1.1

Figure 1.1: User interface for Login

On successful login, a new form should be displayed. The new form can have a user interface similar to Figure 1.2. Change the foreground color, background color, Font type of the controls as per your choice.

Figure 1.2: User Interface of Employee Details

This new form should allow user to enter Employee Name, Employee Address and Date of Joining. It should also allow the user to select the Education from the list provided and allow either selecting the department from a list of departments or entering a new department name. The list of departments should be in sorted order. Further features of this form are:

a. **The Employee address should be more than 1 line**
b. **The Save button should confirm the details entered by the user.**
c. **The Clear button should clear the contents of the controls. Initially the Clear button should be disabled. It should be enabled after details have been confirmed through the Save button.**
d. **The Exit button should allow the user to exit from the application.**

Hints:
a. To display the Employee Details form from the Login form, create an object of Employee Details form and invoke its "Show" method.
b. Set MultiLine property of textbox for address.
c. Set PasswordChar property of the Password textbox for the login form to appropriate value
d. Use the ListBox control to accept the Education.
e. Use the ComboBox control to accept the Department. Set the Sorted property of the ComboBox.

Create a Windows application, which will allow the user to verify the details entered for reserving a Flight ticket. The application should have the following features:

a. **Allows the user to enter the ticket number, name of the passenger, passport number and flight date.**
b. **Allow the user to select the source, destination and the class.**
c. **Allows the user to check the respective service / services from the list provided**
d. **The Verify button should display an error message if the source and the destination are the same.**
e. **The Clear button should clear the contents of the controls.**

The Form can have the following user interface:

Figure 2.1: User Interface

Change the foreground color, background color, Font type of the controls as per your choice.
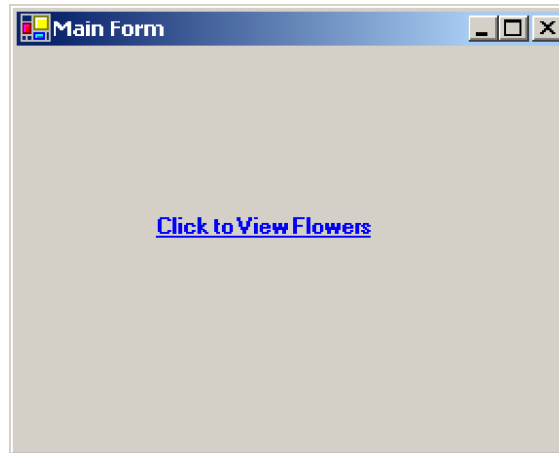
Create a Windows application having two forms. The first form will allow the user to proceed to the second form which will then display a list of images at specified intervals after the user clicks on the Start button. The second form will stop displaying images when the Stop button is clicked.

Hints:

a.   The first Form can have the following interface with only one LinkLabel control.

Figure 3.1: User Interface for the first form

b. The Second form will have a user interface as shown in Figure 3.2. It will contain a PictureBox control which will display images. The images will be stored in an ImageList control. The timer control will display these images at specified intervals.
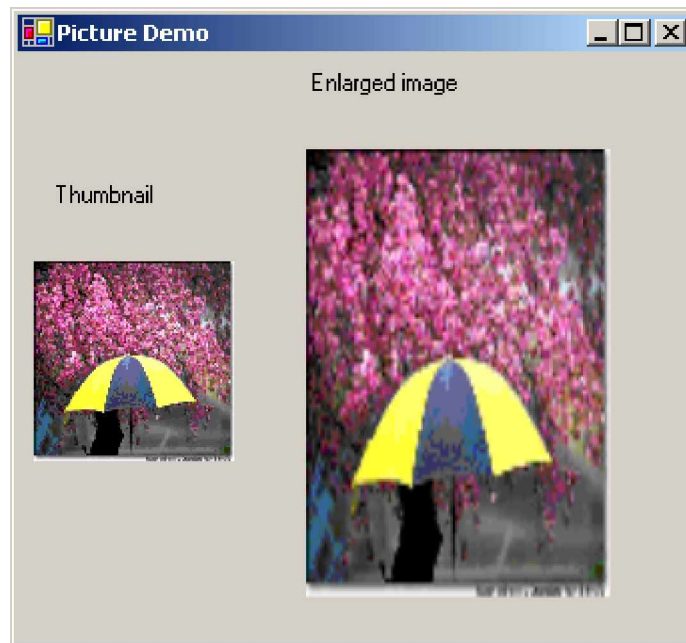

Figure 3.2: User Interface for the second form

Q4

Create a Windows application, which will display thumbnail of images at a specified interval. On clicking the thumbnail, the enlarged version of the corresponding image should be displayed next to it.
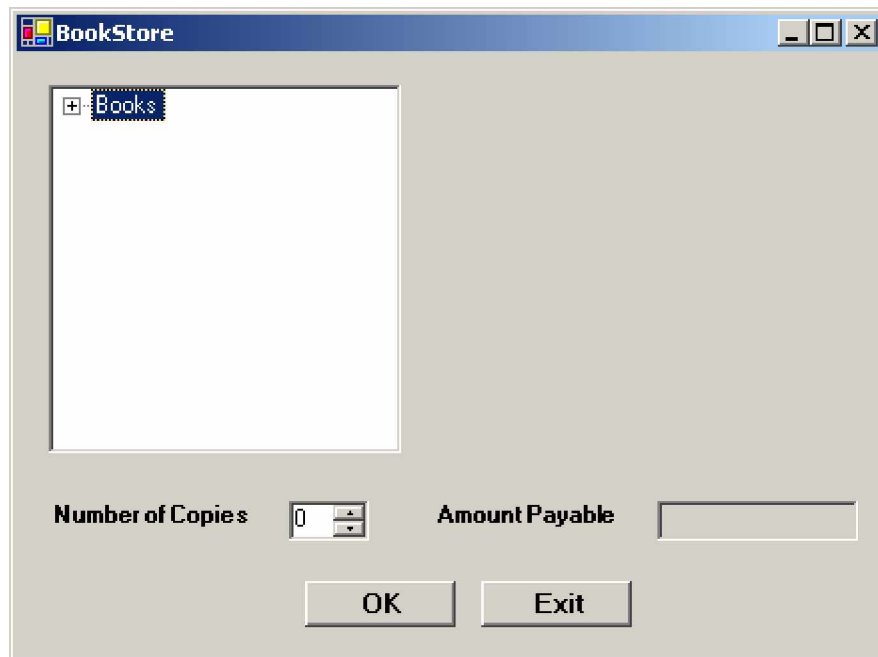
The Form can have the following user interface:
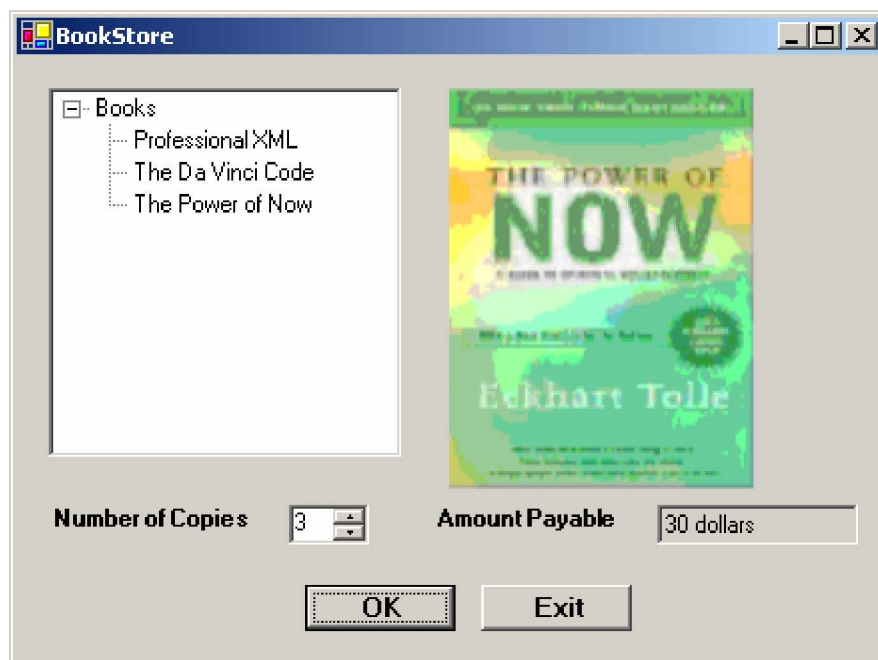

Figure 4.1: User Interface for displaying images

Q5

Create a Windows application about bookstore The bookstore offers bargain books for 10 dollars. The desired book can be chosen by the user from a given list of books and desired number of copies can be given. Based on the number of copies entered by the user, the amount payable must be calculated and displayed. Also each time a book is chosen, a picture of the book's front cover must be displayed.

The form interface can look like Figure 5.1 and 5.2 at runtime:

Figure 5.1: User Interface for Modified BookStore Application

Figure 5.2: Modified BookStore Application

Hint: Make use of TreeView, ImageList, NumericUpDown, PictureBox controls as well as textboxes and labels among other controls.