EC447 Course Web Site
EC447 Lab 5

Due Sunday August 6 (by midnight)

The object of this assignment is to design an application to generate numeric palindromes. A numeric palindrome is a number that reads the same from right to left or left to right. For example, 1234321.

A fully working implementation of this program can be found here. You are to duplicate all aspects and operation of this program. Anything that does not match the example will result in a loss of credit. This includes the layout and approximate size of the controls.

Settings Dialog

A standard modal dialog is implemented to specify the starting value and the number of palendromes to generate. Format the dialog as I went over in class and in the slides.

1. The dialog should be in a field and instantiated only once in the constructor.
2. There are two text boxes for the starting value and the number of palindromes to generate.
3. You MUST check for conversion errors and numbers out of range such as negative, too large or small.
4. The OK button triggers conversion and validation of the data entered.
5. An error message is displayed in a label control and the dialog is not closed.
6. If there are no errors the dialog result OK is returned.
7. The cancel button returns the dialog result for cancel and this closes the dialog.
8. The error comment is always cleared upon successful data entry.
9. The title must be "Settings."
10. Name the project Lab5.

Main Form

1. The title must contain your name.
2. The solution and project name must be Lab5."
3. The generate button opens the settings dialog.
4. If the dialog returns OK then the palendeomes are generated and displayed in the list control.
5. If Cancel is returned the list control is cleared.
6. The list box is sized to the approximate width in my exammple and has 10 rows.
7. You must have a form title as well as a heading on the page that follows the example. Use labels and match font sizes. DO NOT USE A PAINT EVENT>
8. The main form is centered on the screen and the dialog is centered in the main form.
9. No unhandled exceptions are allowed. Test, test, and test some more.
10. HINT: I tested for a palindrome by converting the number to a string, reversing the string and comparing to the original. You can use another technique.

Check your program against every key point and my solution.