Experiment 4

Objectives

- To learn CheckedListBox
- To learn DateTimePicker
- To learn ColorDialog
- To learn ComboBox
- To learn Timer

Lab Exercises

Lab Exercise 1 – Time Zone Configuration

Create a digital clock configuration screen. User will be able to set time and time zone via configuration screen. Time will be going on second by second on the screen as digital clock. User will be able to add, update and delete a Time Zone in a CheckedListBox and Combobox. Combox will be used for set current time and CheckedListBox will be used to update and delete Time Zone.

Checkpoints;
1. Show a digital clock(5pt) which increases second by second. (15pt)
2. Digital clock text color will be set a color(which is selected by user(5pt)) between 08:00 to 20:00 and will be black 20:00 to 08:00 (5pt)
3. Show added time zones via combobox(5pt) and CheckedListBox(5pt)
   a. With CheckedListBox;
      i. Add new timezone, get time difference as positive or negative integer and zone name as text(10pt)
      ii. Update a selected time zone (10pt)
         1. Disable update button if multiple rows selected(+10pt)
      iii. Delete selected time zones
         1. Multiple Delete(5pt)
         2. Single Delete(5pt)
   b. With Combobox change current time (10pt)
4. Change time via DateTimePicker(10pt)
   a. Show only time picker, hide dates (10pt)

Penalties;
1. Naming Convention violations will be penalized (-3pt for each violation)
2. 60 minutes to complete. Late submissions will be penalized (-5pt for each 10 minute)