

PRG455

LAB ASSIGNMENT #2

Marks: 3.5%

Due: Week 5 Lab class

Design “Unit Converter” Windows Forms Application which uses the following controls: a group box, four radio buttons, two panels, three labels, two text boxes, two combo boxes, and a button as shown in figure below.

The screenshot shows a Windows Forms application titled "UNIT CONVERTER". The main window has a light blue background. At the top center, there is a label "Convert length". On the left side, there is a gray panel titled "Select units =>". Inside this panel, there are four radio buttons: "Length" (which is selected), "Mass", "Time", and "Temperature". To the right of the "Select units" panel, there are two colored panels. The top panel is green and labeled "FROM". It contains a text box with the value "1" and a combo box showing "kilometer[km]". The bottom panel is yellow and labeled "TO". It contains a text box with the value "1000" and a combo box showing "meter[m]". At the bottom center of the window, there is a red button labeled "CLOSE".

Please note that this unit converter contains four unit categories: length, mass, time, and temperature. A unit category is selected by clicking/checking an appropriate radio button. When a radio button is checked an appropriate text will be shown in the label (e.g. “Convert Length”, “Convert Mass”, etc.) and the corresponding unit’s options will be available in both combo boxes for the user to choose from. In addition, all existing inputs/selections/results in both text boxes and combo boxes should be deleted, and the **focus should be set** on the first text box. **You should make up at least three options for each unit category.**

After selecting the unit category, the user should use the first panel (“From”) to enter a value into the text box and select an appropriate unit in the combo box. The user should then use the second panel (“To”) to select the unit to which the previously entered value will be converted and the result of the unit’s conversion will be shown in the second text box. Please note that the result of the conversion will be computed and displayed when a unit is selected in a combo box. The “CLOSE” button will terminate the program.

It is required to follow naming conventions when naming your controls. It is also required to submit this project (i.e., a ZIP file) on the BlackBoard into the Assignments folder of your lab section before the deadline. You should use MSDN Help to find out which properties/events of the radio button and combo box can be used to solve this problem.