

Assignment #4 /15

Write a program to that will convert a temperature in Celsius to Fahrenheit and vice-versa (declare your variable as double – this ensures you can calculate with decimal places).

- Use one textbox for inputting and output to one label.
- Round your answer to the nearest integer using the command: `math.round(variable)`
- Use labels as necessary to clarify the information on your form.
- Be sure to comment your code (I will be checking).
- *Computer science 120 students*: Make the program change the form colour depending on temperature in Celsius.
 - Blue for $C \leq 0$
 - Orange for $0 < C \leq 50$
 - Red for $C > 50$
- The formulas for each are below:

$$C = \frac{5}{9}(F - 32)$$

$$F = \frac{9}{5}C + 32$$

Assignment #5 /15

Create a simple integer counter.

- The user will input an integer. One button will add the number in the textbox and the other button will subtract that number from the running total displayed in a label.
- Create a counter that counts how many times each button was clicked. Display the total in a label.
- Use labels as necessary to enhance your form.
- This continues until the user stops with a “quit” button.
- Comment your code.
- *Computer Science 120*: Instead of inputting a user selected number a random number from 1 – 10 is added or subtracted from the running total.
 - Display the random number in a label as well.
 - If the random number is 3 or 7 display an image or your choosing.