

Project 1 Specifications: Metric Conversion

Write a program to convert a U.S. Customary System length in miles, yards, feet, and inches to a Metric System length in kilometers, meters, and centimeters. A Sample run is shown below. After the number of miles, yards, feet, and inches are read from the text boxes, the length should be converted entirely to inches and then divided by 39.37 to obtain the value in meters. The Int function should be used to break the total number of meters into a whole number of kilometers and meters. The number of centimeters should be displayed to one decimal place. Use the naming convention provided for all controls on the form and all variables used. The needed formulas are as follows:

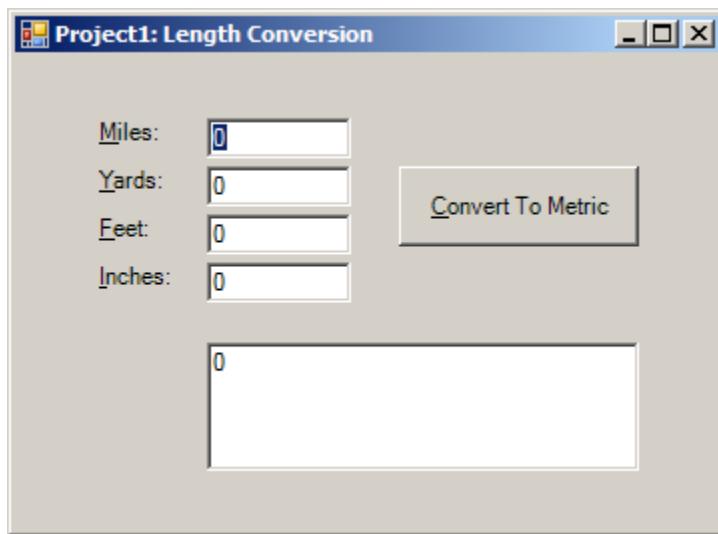
```
dblTotal_inches = (63360 * intMiles) + (36 * intYards) + (12 *  
intFeet) + intInches
```

```
dblTotal_meters = dblTotal_inches / 39.37
```

```
intKilometers = Int(dblTotal_meters/1000)
```

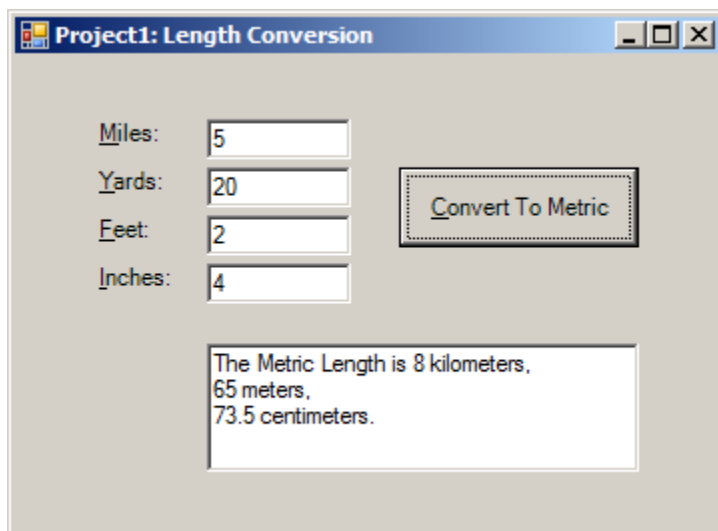
Points:	Earned	(Max)
1) Every procedure has a comment	_____	(2)
2) Block comment at beginning of Class Form	_____	(2)
3) All objects follow the naming convention	_____	(4)
4) Form constructed correctly (Appearance only)	_____	(2)
5) Program inputs data from textboxes to variables	_____	(2)
6) Calculates the Metric Values correctly	_____	(4)
7) The displays values using correct formatting .	_____	(2)
8) Ensure the tab order is correct from Miles ...	_____	(2)
TOTAL	_____	(20)

Shown at Start up:



The screenshot shows a window titled "Project1: Length Conversion". On the left, there are four input fields labeled "Miles:", "Yards:", "Feet:", and "Inches:". Each field contains the number "0". To the right of these fields is a button labeled "Convert To Metric". Below the input fields is a large empty text box.

Shown after entering data and clicking on button:



The screenshot shows the same window after data entry. The input fields now contain "5", "20", "2", and "4" respectively. The "Convert To Metric" button is highlighted with a dashed border. Below the input fields, the large text box now contains the text: "The Metric Length is 8 kilometers, 65 meters, 73.5 centimeters."