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CS411 ASSIGNMENT 2 SOLUTION SPRING 2025

Due Date: 23-June-2025

Total Marks: 20

DO NOT COPY PASTE THE SAME

FOR PAID SOLUTION WITH YOUR VU ID
CONTACT US WHATSAPP **03162965677**

Assignment Submission Instruction:

The assignment is not in the required format (doc or docx).

If you didn't use your own VU ID, you will get zero marks.

Problem Statement:

You are required to develop a WPF application in C# that converts a temperature from Fahrenheit to Celsius. The application should consist of a clean and simple interface built using WPF in xaml (MainWindow.xaml), and the conversion logic should be implemented in C# (MainWindow.xaml.cs).

Step 1: Create WPF App (.Net Framework):

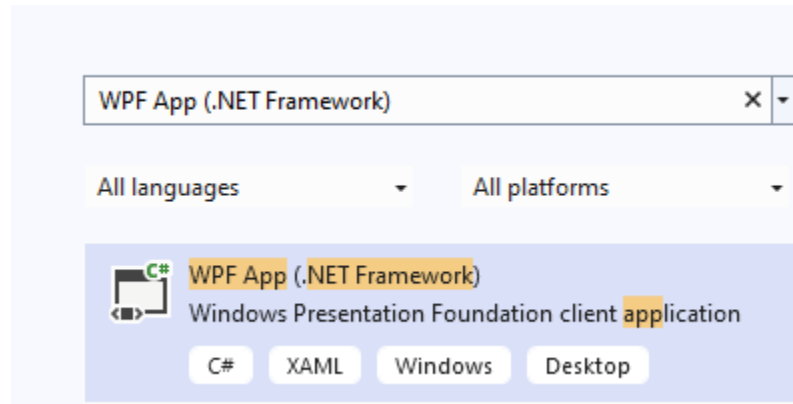
While creating WPF application in visual studio choose this option.

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Step 2: UI Design Instructions (MainWindow.xaml):

You must create the following interface elements using XAML:

1. **Top Label**
 - Display your **VU ID** (e.g., VU1234567)
 - Style: Bold, Large font size (24 or more), cantered
2. **Input Label**
 - A Label with the text **“Input Fahrenheit:”**
 - Style: Font Size 14 or higher, Bold
3. **Input Textbox**
 - A Textbox for the user to enter the **Fahrenheit** temperature
 - Style: reasonable height and font for clear visibility
4. **Convert Button**
 - A Button labelled **“To Celsius”**
 - Style:
 - Background: Green
 - Foreground: White
 - Bold text, large enough to stand out
 - This button should trigger the temperature conversion
5. **Result Label**
 - A Label to display the conversion result e.g.
Result: 37.78 °C
 - Style: Bold, medium or large font

All elements should be arranged vertically using a Grid or Stack Panel, with proper margins.

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Step 3: C# Code Instructions (MainWindow.xaml.cs):

In the code-behind file MainWindow.xaml.cs, you must:

1. Create a button click event handler for the “To Celsius” button.
2. In the event handler:
 - o Read the value entered in the Textbox
 - o Convert the input from **Fahrenheit to Celsius** using the formula:
$$\text{Celsius} = (\text{Fahrenheit} - 32) \times 5 / 9$$
 - o Format the result to 2 decimal places
e.g., Result: 37.78 °C
3. If the input is not a valid number, show an error message using a Message Box.

SOLUTION

CODE

1. MainWindow.xaml

```
<Window x:Class="CS411_2_Spring.MainWindow"
        xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
        xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
        Title="Temperature Converter" Height="300" Width="400">
    <Grid Margin="20">
        <!-- Top Label displaying the VU ID -->
        <Label Content="VU1234567" FontSize="24" FontWeight="Bold" HorizontalAlignment="Center"
            VerticalAlignment="Top" />

        <!-- Input Label -->
        <Label Content="Input Fahrenheit:" FontSize="14" FontWeight="Bold" HorizontalAlignment="Left"
            VerticalAlignment="Top" Margin="0,50,0,0" />

        <!-- Input TextBox -->
        <TextBox Name="FahrenheitTextBox" Width="340" Height="30" HorizontalAlignment="Center"
            VerticalAlignment="Top" Margin="0,80,0,0" />

        <!-- Convert Button -->
        <Button Content="To Celsius" Name="ConvertButton" Width="340" Height="40" HorizontalAlignment="Center"
            VerticalAlignment="Top" Margin="0,120,0,0" Background="Green" Foreground="White" FontWeight="Bold"
            Click="ConvertButton_Click" />

        <!-- Result Label -->
```

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```
<Label Name="ResultLabel" Content="Result: " FontSize="16" FontWeight="Bold" HorizontalAlignment="Center"
VerticalAlignment="Top" Margin="0,180,0,0" />
</Grid>
</Window>
```

2. MainWindow.xaml.cs

```
using System;
using System.Windows;

namespace CS411_2_Spring
{
    public partial class MainWindow : Window
    {
        public MainWindow()
        {
            InitializeComponent();

            // Event handler for the 'To Celsius' button click
            private void ConvertButton_Click(object sender, RoutedEventArgs e)
            {
                // Get the input from the textbox
                string fahrenheitText = FahrenheitTextBox.Text;
                double fahrenheit;

                // Try to parse the input into a double
                if (double.TryParse(fahrenheitText, out fahrenheit))
                {
                    // Convert Fahrenheit to Celsius
                    double celsius = (fahrenheit - 32) * 5 / 9;

                    // Format the result to 2 decimal places
                    ResultLabel.Content = $"Result: {celsius:F2} °C";
                }
                else
                {
                    // Show an error message if the input is not a valid number
                    MessageBox.Show("Please enter a valid number for Fahrenheit.", "Invalid Input", MessageBoxButton.OK,
                    MessageBoxImage.Error);
                }
            }
        }
    }
}
```

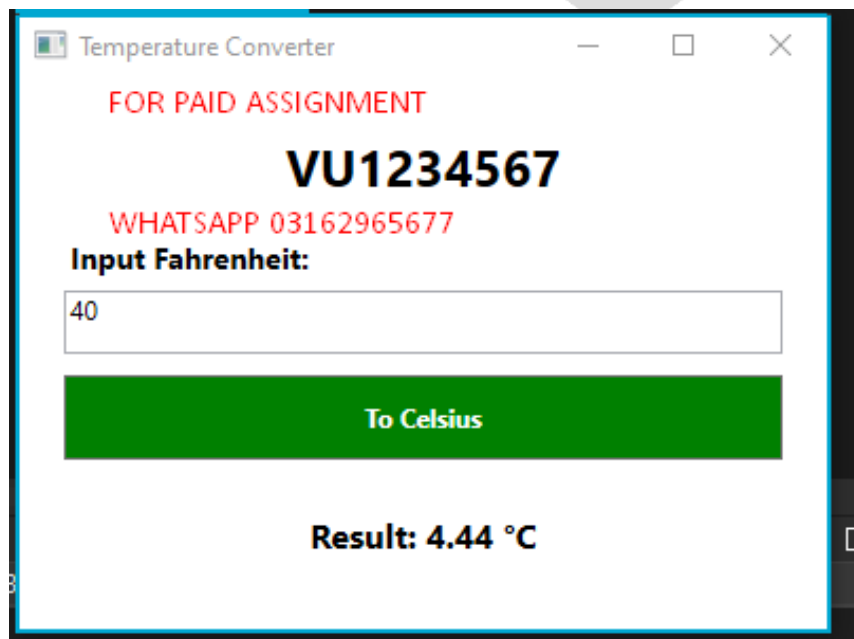
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3. OUTPUT SCREENSHOT



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REGARD - SARIM

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PLEASE NOTE:

Don't copy-paste the same answer.

Make sure you can make some changes to your solution file before submitting copy paste solution will be marked zero.

If you found any mistake then correct yourself and inform me.

Before submitting an assignment must check your assignment requirement file.

If you need some help or question about file and solutions feel free to ask.

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