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// Section 10

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace OOP\_assignment\_Section\_\_Tempreture\_

{

public partial class Form1 : Form

{

Button convert = new Button();

Label tempLabel = new Label();

Label convertLabel = new Label();

Label resultLabel = new Label();

TextBox tempText = new TextBox();

RadioButton cels = new RadioButton();

RadioButton fehrn = new RadioButton();

ToolTip fehrTocels = new ToolTip();

ToolTip celsTofehr = new ToolTip();

ToolTip TextForTiping = new ToolTip();

Font f1 = new Font("Tahoma", 9,FontStyle.Bold);

public Form1()

{

InitializeComponent();

}

private void Form1\_Load(object sender, EventArgs e)

{

this.Size = new Size(425, 458);

this.Text = "Temperature Converter";

this.Font = f1;

fehrTocels.SetToolTip(cels, "Fehrenheit To Celsuis");

celsTofehr.SetToolTip(fehrn, "Celsuis To Fehrenheit");

TextForTiping.SetToolTip(tempText, "Enter The Temperature");

this.Controls.Add(convert);

this.Controls.Add(tempLabel);

this.Controls.Add(tempText);

this.Controls.Add(convertLabel);

this.Controls.Add(resultLabel);

this.Controls.Add(cels);

this.Controls.Add(fehrn);

// labels sizes

convertLabel.Size = new Size(80, 13);

tempLabel.Size = new Size(90, 13);

resultLabel.Size = new Size(80, 13);

// labels locations

convertLabel.Location = new Point(20, 177);

tempLabel.Location = new Point(20, 79);

resultLabel.Location = new Point(219, 260);

// labels text

convertLabel.Text = "Convert To ";

tempLabel.Text = "Temperature";

resultLabel.Text = "Result = ?";

// textbox

tempText.Size = new Size(239, 31);

tempText.Location = new Point(165, 69);

tempText.Multiline = true;

// button

convert.Text = "Convert";

convert.Size = new Size(118, 38);

convert.Location = new Point(190, 332);

convert.Click += new EventHandler(convert1\_btn);

// radiobuttons

cels.Size = new Size(85, 17);

cels.Location = new Point(186, 177);

cels.Text = "Celsius";

fehrn.Size = new Size(95, 17);

fehrn.Location = new Point(312, 177);

fehrn.Text = "Fehrenheit";

}

private void convert1\_btn(object sender, EventArgs e)

{

if (tempText.Text == string.Empty)

{

MessageBox.Show("You Must Enter a Value in The Previous Field", "Empty Input", MessageBoxButtons.OK, MessageBoxIcon.Error);

}

else

{

double input = Convert.ToDouble(tempText.Text);

double result = 0;

if (cels.Checked)

{

result = ((input - 32) \* 0.555555555555556);

resultLabel.Text = $"{result.ToString("F1")} °C";

MessageBox.Show($"{result.ToString("F1")} °C", "Result in Celsius", MessageBoxButtons.OK, MessageBoxIcon.Question);

}

else if (fehrn.Checked)

{

result = (input \* 1.8) + 32;

resultLabel.Text = $"{result.ToString("F1")} °F";

MessageBox.Show($"{result.ToString("F1")} °F", "Result in Fehrenheit", MessageBoxButtons.OK, MessageBoxIcon.Question);

}

else

{

MessageBox.Show("Error, You Must Select at Least one Item", "Empty Input", MessageBoxButtons.OK, MessageBoxIcon.Error);

}

}

}

}

}