University of sindh Jamshoro





University Assignment

Year 2023

Fourth Assignment

Academic Year: 2023
Institute of Mathematics & Computer Sience

Labheshwar| 2K20/CSM/50 Visual Programming (C#) Date of Submission: June 7, 2023

OBJECTS AND PROPERTIES

<u>Object</u>	<u>Property</u>	<u>Setting</u>
OrderAndSummaryReportForm	Name Text AcceptButton CancelButton	OrderAndSummaryReportForm Order and Summary Report enrollButton exitButton
coursesGroupBox	Name Text Font FontSize	coursesGroupBox Courses Corbel 12pt
webDevRadioButton	Name Text Font FontSize	webDevRadioButton Web Development 79.99 Corbel 10pt
appDevRadioButton	Name Text Font FontSize	appDevRadioButton App Development 89.99 Corbel 10pt
mlRadioButton	Name Text Font FontSize	mlRadioButton Machine Learning 99.99 Corbel 10pt
noCourseRadioButton	Name Text Checked Visible	noCourseRadioButton invisible true false
extrasGroupBox	Name Text Font FontSize	extrasGroupBox Extras - \$9.99 each Corbel 12pt
codingResourcesCheckBox	Name Text Font FontSize	codingResourcesCheckBox Access To Coding Resources Corbel
mentorshipCheckBox	Name Text Font FontSize	mentorshipCheckBox Personal Mentorship Corbel 12pt
jobPlacementCheckBox	Name Text Font FontSize	jobPlacementCheckBox Job Placement Assistance Corbel 12pt

selectCourseGroupBox	Name Text Font FontSize	selectCourseGroupBox Select the course type Corbel 12pt
webDevLabel	Name Text Font FontSize	webDevLabel Web Development Corbel 11pt
reactJsRadioButton	Name Text Font FontSize Checked	reactJsRadioButton React.js Corbel 10pt true
angular Radio Button	Name Text Font FontSize	angularRadioButton Angular.js Corbel 10pt
appDevLabel	Name Text Font FontSize	appDevLabel App Development Corbel 11pt
androidDevRadioButton	Name Text Font FontSize	androidDevRadioButton Android Development Corbel 10pt
iosDevRadioButton	Name Text Font FontSize	iosDevRadioButton iOS Development Corbel 10pt
flutterDevRadioButton	Name Text Font FontSize	flutterDevRadioButton Flutter Development Corbel 10pt
quantityLabel	Font FontSize Name Text	Corbel 12pt quantityLabel Number of Persons
quantityTextBox	Name Text	quantityTextBox (Blank)
itemPriceLabel	Font FontSize Name Text	Corbel 12pt itemPriceLabel Item Price

itemPriceTextBox	Name Text ReadOnly TabStop	itemPriceTextBox (Blank) true false
enrollButton	Name Text Font FontSize	enrollButton Enroll Corbel 12pt
enrollmentCompleteButton	Name Text Font FontSize Enabled	enrollmentCompleteButton Enrollment Complete Corbel 12pt false
summaryReportButton	Name Text Font FontSize Enabled	summaryReportButton Summary Report Corbel 12pt false
exitButton	Name Text Font FontSize	exitButton Exit Corbel 12pt
fileToolStripMenuItem	Name Text	fileToolStripMenuItem File
summaryToolStripMenuItem	Name Text	summaryToolStripMenuItemFile Summary
exitToolStripMenuItem	Name Text	exitToolStripMenuItem Exit
ExditToolStripMenuItem	Name Text	editToolStripMenuItem Edit
enrollToolStripMenuItem	Name Text	enrollToolStripMenuItem Enroll
enrollmentCompleteTooolS	Name Text	enrollmentCompleteTooolStripMenuItem Enrollment Complete
fontToolStripMenuItem	Name Text	fontToolStripMenuItem Font
colorToolStripMenuItem	Name Text	colorToolStripMenuItemFile Color
helpToolStripMenuItem	Name Text	helpToolStripMenuItemFile Help
aboutToolStrip M enuItem	Name Text	aboutToolStripMenuItemFile About
colorDialog1	Name	colorDialog1
fontDialog1	Name	fontDialog1

CODE

```
/* Project: Sales Form
 * Programmer: Labheshwar
 * Roll Number: (2K20/CSM/50)
 * Description: This project generated summary report for orders and enrollments.
 * This project calculates the amount due based on the customer selection and
 * accumulates summary data for the day.
 * Includes error trapping and summary calculations.
 */
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 OrdersAndSummaryReport
    public partial class OrderAndSummaryReportForm : Form
        // Declare Class Variables
        decimal coursePriceDecimal, totalOrderDecimal, totalSalesDecimal,
                  courseDecimal;
        int coursesInteger, ordersInteger;
        public OrderAndSummaryReportForm()
        {
            InitializeComponent();
        }
        private void enrollButton_Click(object sender, EventArgs e)
        {
            enroll();
        }
        private void enrollmentCompleteButton Click(object sender, EventArgs e)
        {
            enrollmentComplete(sender, e);
        }
        private void summaryReportButton Click(object sender, EventArgs e)
            summaryReport();
        }
```

```
private void exitButton_Click(object sender, EventArgs e)
    this.Close();
private void enrollToolStripMenuItem_Click(object sender, EventArgs e)
    enroll();
}
private void enrollmentCompleteToolStripMenuItem_Click(object sender,
                                                    EventArgs e)
{
    enrollmentComplete(sender, e);
}
private void summaryToolStripMenuItem_Click(object sender, EventArgs e)
    summaryReport();
}
private void aboutToolStripMenuItem_Click(object sender, EventArgs e)
    // Display information in a message box.
    string aboutString = "Programmed by Labheshwar\nVersion 1.1";
    string captionString =
    "About CodeLab By Labesh Courses Enrollment";
   MessageBox.Show(aboutString, captionString);
}
private void fontToolStripMenuItem_Click(object sender, EventArgs e)
    // Change the label's font.
    // Initialize the dialog box.
    fontDialog1.Font = headerLabel.Font;
    // Display the dialog box.
    fontDialog1.ShowDialog();
    // Assign the new font.
    headerLabel.Font = fontDialog1.Font;
}
private void colorToolStripMenuItem Click(object sender, EventArgs e)
    // Change the form's ForeColor.
    // Applies to all controls on the form that haven't had their
    // ForeColor explicitly modified.
```

```
// Initialize the dialog box.
    colorDialog1.Color = this.ForeColor;
    // Display the dialog box.
    colorDialog1.ShowDialog();
    // Assign the new color.
    this.ForeColor = colorDialog1.Color;
}
private void exitToolStripMenuItem_Click(object sender, EventArgs e)
    this.Close();
}
private void webDevRadioButton_CheckedChanged(object sender, EventArgs e)
    findAndUpdateTextBox(sender);
}
private void appDevRadioButton_CheckedChanged(object sender, EventArgs e)
    findAndUpdateTextBox(sender);
}
private void mlRadioButton CheckedChanged(object sender, EventArgs e)
    findAndUpdateTextBox(sender);
private void codingResourcesCheckBox CheckedChanged(object sender,
                                                    EventArgs e)
{
    updateItemTextPrice();
}
private void mentorshipCheckBox CheckedChanged(object sender, EventArgs e)
    updateItemTextPrice();
}
private void jobPlacementCheckBox_CheckedChanged(object sender,
                                                    EventArgs e)
{
    updateItemTextPrice();
}
private void enroll()
    // Add the current item price and quantity to the order.
```

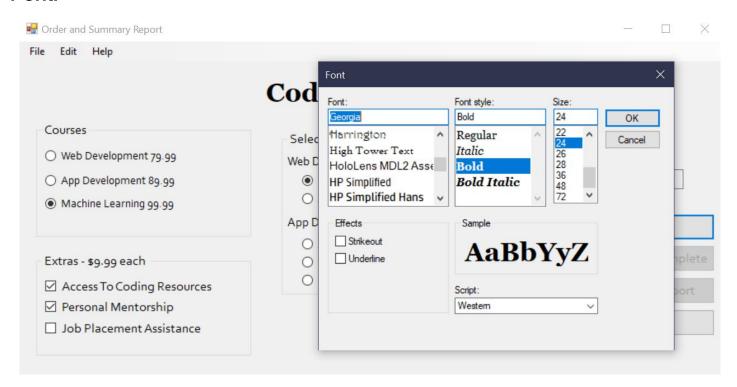
```
if (noCourseRadioButton.Checked)
        MessageBox.Show("You must select a course.",
                      "Missing Required Entry");
    }
   else
    {
        try
            int quantityInteger = int.Parse(quantityTextBox.Text);
            if (quantityInteger > 0)
            {
                coursesInteger += quantityInteger;
                totalOrderDecimal += courseDecimal * quantityInteger;
                clearForNextItem();
                enrollmentCompleteButton.Enabled = true;
            }
            else
            {
                MessageBox.Show("Please enter a quantity.",
                                  "Missing Required Entry");
            }
        }
        catch (FormatException)
        {
            MessageBox.Show("Invalid Quantity.", "Data Entry Error");
            quantityTextBox.Focus();
            quantityTextBox.SelectAll();
        }
    }
}
private void enrollmentComplete(object sender, EventArgs e)
    // Enrollment is complete, add to summay and clear order.
    // Check if the last enrollment was added to the total
    if (itemPriceTextBox.Text != "")
    {
        DialogResult responseDialogResult;
        string messageString = "Current Item not recorded. Enroll first!";
        responseDialogResult = MessageBox.Show(messageString,
                            "Verify Last Enrollment",
                            MessageBoxButtons.YesNo,
                            MessageBoxIcon.Question);
        if (responseDialogResult == DialogResult.Yes)
            enrollButton_Click(sender, e);
    }
```

```
// Display amound due
    string dueString = "Amount Due " + totalOrderDecimal.ToString("C");
   MessageBox.Show(dueString, "Enrollment Complete");
    // Add to summary totals.
    ordersInteger++;
    totalSalesDecimal += totalOrderDecimal;
    // Reset buttons and total for new order.
    summaryReportButton.Enabled = true;
    summaryToolStripMenuItem.Enabled = true;
    enrollmentCompleteButton.Enabled = false;
    enrollmentCompleteToolStripMenuItem.Enabled = false;
    totalOrderDecimal = 0m;
}
private void summaryReport()
    // Display the summary information in a message box.
    string summaryString = "Courses sold:
            + coursesInteger.ToString()
            + "\n\n" + "Number of Orders:
            + ordersInteger.ToString()
            + "\n\n" + "Total Sales:
            + totalSalesDecimal.ToString("C");
   MessageBox.Show(summaryString,
                "CodeLab Courses Sold Summary Report",
               MessageBoxButtons.OK,
               MessageBoxIcon.Information);
}
private void clearForNextItem()
    // Clear radio buttons, check boxes, text boxes.
    noCourseRadioButton.Checked = true;
    reactJsRadioButton.Checked = true;
    codingResourcesCheckBox.Checked = false;
    jobPlacementCheckBox.Checked = false;
    mentorshipCheckBox.Checked = false;
    itemPriceTextBox.Clear();
    quantityTextBox.Text = "1";
}
private decimal findExtrasPrice()
    // Find price for additives.
    decimal extrasDecimal = 0;
```

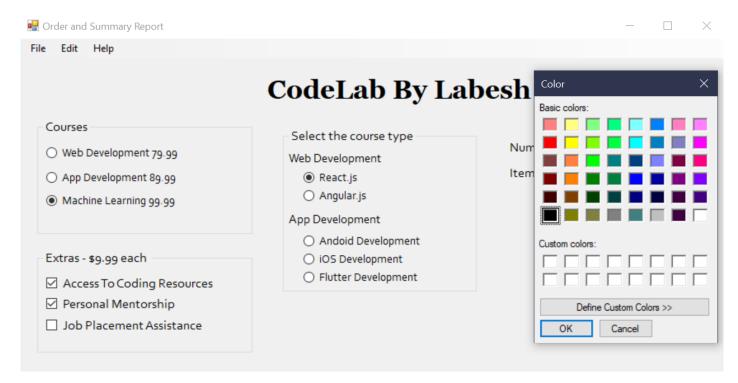
```
if (jobPlacementCheckBox.Checked)
            {
                extrasDecimal += 9.99m;
            if (mentorshipCheckBox.Checked)
                extrasDecimal += 9.99m;
            if (jobPlacementCheckBox.Checked)
                extrasDecimal += 9.99m;
            return extrasDecimal;
        }
        private void findAndUpdateTextBox(object sender)
            // Calculate and display the price for the selected item.
            // Handles all check boxes and radio buttons.
            // Cast the sender to a RadioButton type.
            RadioButton selectedCourseRadioBUtton = (RadioButton)sender;
            switch (selectedCourseRadioBUtton.Name)
            {
                case "webDevRadioButton":
                    coursePriceDecimal = 79.99m;
                case "appDevRadioButton":
                    coursePriceDecimal = 89.99m;
                    break:
                case "mlRadioButton":
                    coursePriceDecimal = 99.99m;
                    break;
            }
            courseDecimal = coursePriceDecimal + findExtrasPrice();
            itemPriceTextBox.Text = courseDecimal.ToString("C");
        }
        private void updateItemTextPrice()
            // Check price of additives and display current price.
            // Handles all three check boxes.
            courseDecimal = courseDecimal + 9.99m;
            itemPriceTextBox.Text = courseDecimal.ToString("C");
    }
}
```

Graphical User Interface

Font:



Color:



Font and Color Applied:

