

**Name:**  
**Session:**  
**Programming II**  
**Working with Multiple Forms**  
**Lab Exercise 4.7.2021**

1. Create an application that calculates registration fees for a conference. The general conference registration fee is \$895 per person. There is also an optional opening night dinner with a keynote address for \$30 per person. Additionally, the pre-conference workshops are available:

| Workshop                   | Fee   |
|----------------------------|-------|
| Introduction to E-commerce | \$295 |
| The Future of Web          | \$295 |
| Advanced C#                | \$395 |
| Network Security           | \$395 |

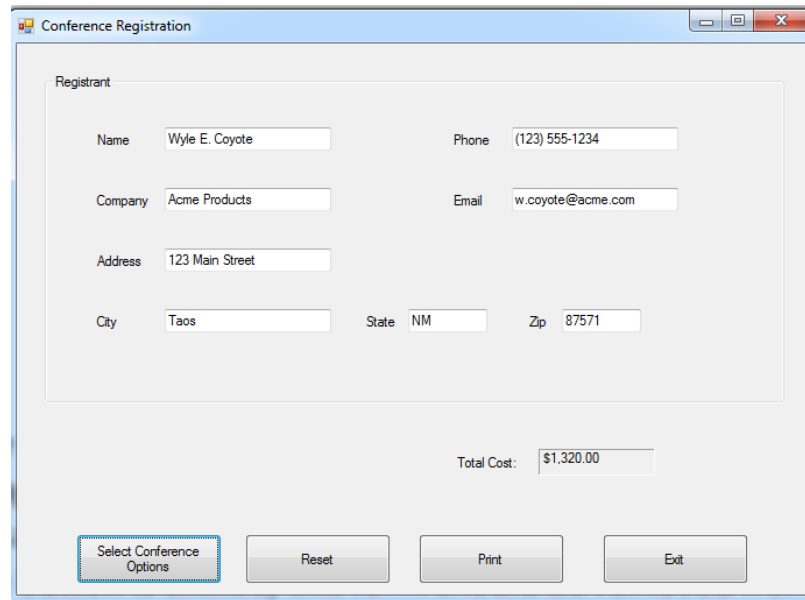
The application will have 3 forms. The main form, a conference options form, and a report form.

The screenshot shows a Windows application window titled "Conference Registration". Inside, there is a "Registrant" section with several text input fields: "Name" (Wyle E. Coyote), "Phone" ((123) 555-1234), "Company" (Acme Products), "Email" (w.coyote@acme.com), "Address" (123 Main Street), "City" (Taos), "State" (NM), and "Zip" (87571). Below these fields is a "Total Cost:" label followed by an empty text box. At the bottom of the form are four buttons: "Select Conference Options", "Reset", "Print", and "Exit".

When the user clicks the *Select Conference Options* button, the Conference Options form should appear.

The screenshot shows a Windows application window titled "Conference Options". It contains two main sections. The "Conference" section has two checked checkboxes: "Conference Registration (\$895)" and "Opening Night Dinner (\$30)". The "Pre-Conference Workshop" section has a "Select One" label above a list box containing five items: "Intro to E-Commerce", "The Future of the Web", "Advanced C#", "Network Security", and "Network Security". At the bottom of the form are two buttons: "Close" and "Reset".

The Conference Options form allows the user to select the regular conference registration, the optional opening night dinner, and one optional pre-conference workshop. Note: the user can not register for any optional activities without selecting the conference registration of \$895. When the close button is clicked, this form should be removed from the screen and the total registration fee should appear on the main form.



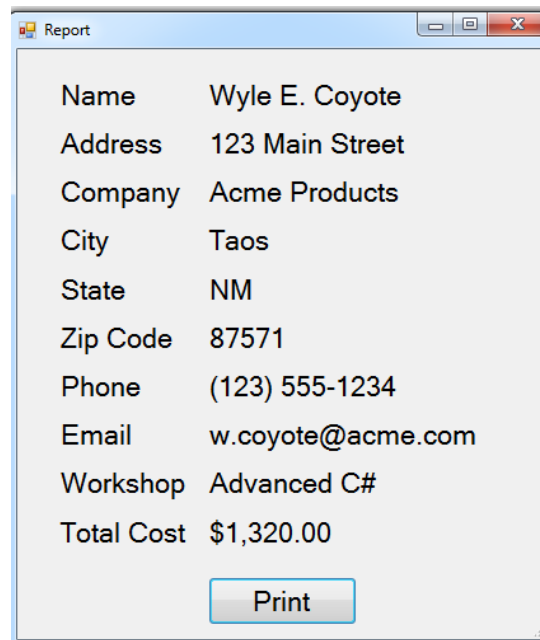
The image shows a software window titled "Conference Registration". Inside, there is a section labeled "Registrant" containing several text input fields. The fields are filled with the following information: Name: Wyle E. Coyote, Phone: (123) 555-1234, Company: Acme Products, Email: w.coyote@acme.com, Address: 123 Main Street, City: Taos, State: NM, and Zip: 87571. Below these fields, there is a "Total Cost:" label followed by a text box containing "\$1,320.00". At the bottom of the window, there are four buttons: "Select Conference Options" (highlighted with a blue border), "Reset", "Print", and "Exit".

| Registrant |                   |
|------------|-------------------|
| Name       | Wyle E. Coyote    |
| Phone      | (123) 555-1234    |
| Company    | Acme Products     |
| Email      | w.coyote@acme.com |
| Address    | 123 Main Street   |
| City       | Taos              |
| State      | NM                |
| Zip        | 87571             |

Total Cost: \$1,320.00

Buttons: Select Conference Options, Reset, Print, Exit

When the Print button is pressed, a Report Form opens and a Print button will print the report.



The image shows a software window titled "Report". It displays a list of fields and their corresponding values, matching the data entered in the "Conference Registration" form. The fields are: Name (Wyle E. Coyote), Address (123 Main Street), Company (Acme Products), City (Taos), State (NM), Zip Code (87571), Phone ((123) 555-1234), Email (w.coyote@acme.com), Workshop (Advanced C#), and Total Cost (\$1,320.00). At the bottom of the window, there is a single button labeled "Print".

|            |                   |
|------------|-------------------|
| Name       | Wyle E. Coyote    |
| Address    | 123 Main Street   |
| Company    | Acme Products     |
| City       | Taos              |
| State      | NM                |
| Zip Code   | 87571             |
| Phone      | (123) 555-1234    |
| Email      | w.coyote@acme.com |
| Workshop   | Advanced C#       |
| Total Cost | \$1,320.00        |

Print

1. We will start by working on the code for frmMain. Add the following public static global variables that are shared with other forms.

```
public static int total;  
public static string workshop;
```

2. Add the following code to the btnPrint\_Click event. Notice that the frmReport constructor is passed 8 textbox objects, 1 label and a string)

```
frmReport frmPrint = new frmReport(txtName, txtAddress, txtCity, txtState,  
    txtZip, txtPhone, txtEmail, txtCompany, lblTotal, workshop);  
frmPrint.ShowDialog();  
btnPrint.Enabled = false;
```

3. Add the following code to the btnPrint\_Click event.

```
txtAddress.Text = "";  
txtCity.Text = "";  
txtCompany.Text = "";  
txtEmail.Text = "";  
txtName.Text = "";  
txtPhone.Text = "";  
txtState.Text = "";  
txtZip.Text = "";  
lblTotal.Text = "";  
btnPrint.Enabled = false;  
txtName.Focus();
```

4. Add the following code to the btnSelect\_Click event.

```
frmOptions options = new frmOptions();  
options.ShowDialog();  
lblTotal.Text = total.ToString("c");  
btnPrint.Enabled = true;
```

5. Now we will work on the code for frmOptions.

6. Add the following code to the btnClose\_Click event.

```
//Local variables
int total = 0;
string workshop = "";

if (ckbReg.Checked) //registered for conference
{
    total += 895;
    if (ckbDinner.Checked) //having dinner
        total += 30;

    //Add cost and select name of chosen workshop
    switch (lstWorkshop.SelectedIndex)
    {
        case 0:
            total += 295;
            workshop = lstWorkshop.SelectedItem.ToString();
            break;
        case 1:
            total += 295;
            workshop = lstWorkshop.SelectedItem.ToString();
            break;
        case 2:
            total += 395;
            workshop = lstWorkshop.SelectedItem.ToString();
            break;
        case 3:
            total += 495;
            workshop = lstWorkshop.SelectedItem.ToString();
            break;
    } //end of switch

    //get workshop information back to main form
    frmMain.workshop = workshop;
} //end of if
//get total cost information back to main form
frmMain.total = total;

//Close current form
this.Close();
```

7. Now we will work on the code for frmReport.

8. Modify the frmReport constructor to be

```
public frmReport(TextBox txtName ,TextBox txtAddress, TextBox txtCity, TextBox txtState,
    TextBox txtZip, TextBox txtPhone, TextBox txtEmail, TextBox txtCompany,
    Label lblTotal, string workshop)
{
    InitializeComponent();

    //Put all information passed to this form into the report fields for printing
    lblName.Text = txtName.Text;
    lblAddress.Text = txtAddress.Text;
    lblCity.Text = txtCity.Text;
    lblState.Text = txtState.Text;
    lblZIP.Text = txtZip.Text;
    lblPhone.Text = txtPhone.Text;
    lblEmail.Text = txtEmail.Text;
    lblCompany.Text = txtCompany.Text;
    lblWorkshop.Text = workshop;
    lblCost.Text = lblTotal.Text;
}
```
9. Add the following code to the btnPrint\_Click event.

```
printForm1.Print();
this.Close();
```
10. Now test your application.

**When you complete your application submit screen shots of all 3 forms in their running state.**