

Learning Activity

The sample code below follows some of the **beverage** activities, as a guide to other activities.

```
string[,] beverages = { { "Soda", "1.95" }, { "Tea", "1.50" },  
    { "Coffee", "1.25" }, { "Mineral Water", "2.95" }, { "Juice",  
    "2.50" }, { "Milk", "1.50" } };
```

```
LoadCategory( "Beverage", beverageComboBox );
```

```
public void LoadCategory( string categoryString,  
    ComboBox categoryCombo )  
{  
    string[,] items;  
    switch ( categoryString )  
    {  
        case "Beverage":  
            items = beverages;  
            break;  
        case "Appetizer":  
            items = appetizers;  
            break;  
        case "Main Course":  
            items = mainCourses;  
            break;  
        default:  
            items = desserts;
```

```

        break;

    } // end switch

    for ( int i = 0; i <= items.GetUpperBound( 0 ); i++ )

        categoryCombo.Items.Add( items[i, 0] );

} // end method LoadCategory

```

```

private void beverageComboBox_SelectedIndexChanged(

    object sender, EventArgs e )

{

    // add selected beverage to subtotal

    AddToSubtotal( "Beverage",

        Convert.ToString( beverageComboBox.SelectedItem ) );

} // end method beverageComboBox_SelectedIndexChanged

```

```

// calculate the subtotal of the bill

private void AddToSubtotal( string category, string name )

{

    string[,] items;

    switch ( category )

    {

        case "Beverage":

            items = beverages;

            break;

        case "Appetizer":

```

```

        items = appetizers;

        break;

    case "Main Course":

        items = mainCourses;

        break;

    default:

        items = desserts;

        break;

} // end switch


for ( int i = 0; i <= items.GetUpperBound( 0 ); i++ )

    if ( items[i, 0] == name )

        subtotal += Convert.ToDecimal( items[i, 1] );


// display the Subtotal in Label

subtotalLabel.Text = string.Format( "{0:C}", subtotal );


// calculate tax and display in Label

decimal decTax = subtotal * 0.0725M;

taxLabel.Text = string.Format( "{0:C}", decTax );

// calculate total and display in Label

totalLabel.Text =

    string.Format( "{0:C}", ( subtotal + decTax ) );

} // end method AddToSubtotal

```