

## **GETTING STARTED**

This is an open book test that covers chapters 1 – 3. Use Microsoft Expression Web or another available HTML editor for this test. Visit the eLearning course site, click **Tests**, then click **Test 1** and download the **cis-251-test1.zip** file. Save the “test1-data” folder to your desktop. Complete the following projects and submit everything (files, folders, etc.) in a ZIP folder via eLearning by the end of class.

## ***PROJECT 1 [60 PTS]***

Please open the **Project-1** folder and view the **index.htm** file in the appropriate HTML editor. Complete the following instructions below:

1. In your text editor, open **index.htm** and enter your name and today’s date in the head section. Save your changes.
2. Open index.htm in your browser. The web page displays a form with 5 check boxes and a Submit button. Each check box allows users to select an item from a catering menu. You’ll create a script that totals the prices of all the elements a user selects, adds sales tax, and displays the order total in an alert box.
3. Return to your text editor. At the bottom of the document, before the closing `</body>` tag, enter **<script>**, insert a blank line, and then enter **</script>** to create a new script section.
4. Within the script section you created in the previous step, enter the following function.

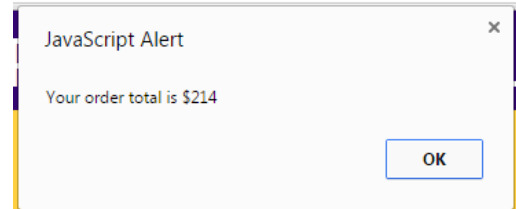
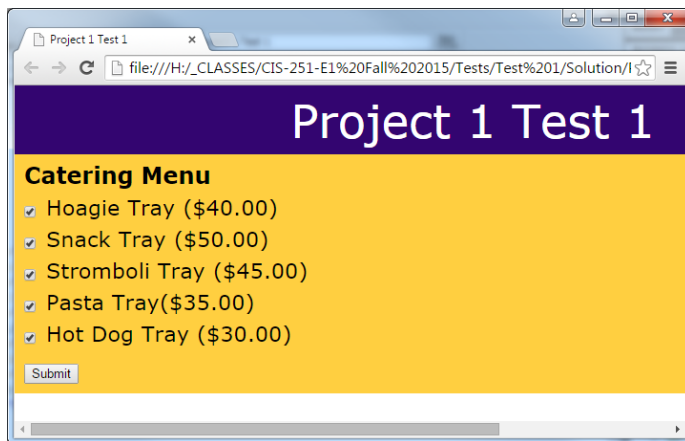
```
function calcTotal() {
    var itemTotal = 0;
    var item1 = document.getElementById("item1");
    var item2 = document.getElementById("item2");
    var item3 = document.getElementById("item3");
    var item4 = document.getElementById("item4");
    var item5 = document.getElementById("item5");
    (item1.checked) ? (itemTotal += 40) : (itemTotal += 0);
    (item2.checked) ? (itemTotal += 50) : (itemTotal += 0);
    (item3.checked) ? (itemTotal += 45) : (itemTotal += 0);
    (item4.checked) ? (itemTotal += 35) : (itemTotal += 0);
    (item5.checked) ? (itemTotal += 30) : (itemTotal += 0);
    var salesTaxRate = 0.07;
    var orderTotal = itemTotal + (itemTotal * salesTaxRate);
    alert("Your order total is $" + orderTotal);
}
```

- Below the closing `}` for the `calcTotal()` function, but before the closing `</script>` tag, enter the following code to add an event listener:

```
document.getElementById("submit").addEventListener("click", calcTotal, false);
```

- Save your work, refresh or reload `index.htm` in your browser. Click all of the check boxes and then click the Submit button. An alert box should pop up and display a total of **\$214**. Click OK.

*NOTE: Please check your browser to make sure that pop ups are not being blocked when testing in the last step. Ask your instructor if you have any questions.*



## PROJECT 2 [40 PTS]

Please open the **Project-2** folder and view the **index.htm** file in the appropriate HTML editor. Complete the following instructions below:

- In your text editor, open **index.htm** and enter your name and today's date in the head section. Save your changes.
- At the bottom of the document, before the closing `</body>` tag, enter `<script>`, insert a blank line, and then enter `</script>` to create a new script section.
- Within the script section create two global variables: one named `i` with a value of `1`, and the other named `listItem` with its value set to an empty string.

4. Below the variables, create a function called **processItems()** as shown below:

```
function processItems() {
  if (i <= 5) {
    listItem = "item" + i;
    document.getElementById(listItem).innerHTML = document.getElementById("wishList").value;
    document.getElementById("wishList").value = "";
    if (i === 5) {
      document.getElementById("resultsExp").innerHTML = "Your wish list has been submitted";
    }
  }
}
```

5. Inside the processItems() function (see above), before the closing **}** of the main **if** statement, after the nested **if** statement, add a statement to increment the value of **i** by 1.

6. Add a backward-compatible event listener for the **click** event as shown below:

```
var btn = document.getElementById("button");
if (btn.addEventListener) {
  btn.addEventListener("click", processItems, false);
} else if (btn.attachEvent) {
  btn.attachEvent("onclick", processItems);
}
```

7. Save and test your work. Open index.htm in a browser, type a wish list item (i.e. – iPad) in the text box, and then click **Submit**. The name of the wish list item is added to the bulleted list on the right side. Enter the names of four more wish list items, clicking **Submit** after each one. After you enter the 5<sup>th</sup> item, the text “Your wish list has been submitted.” displays below the list.

