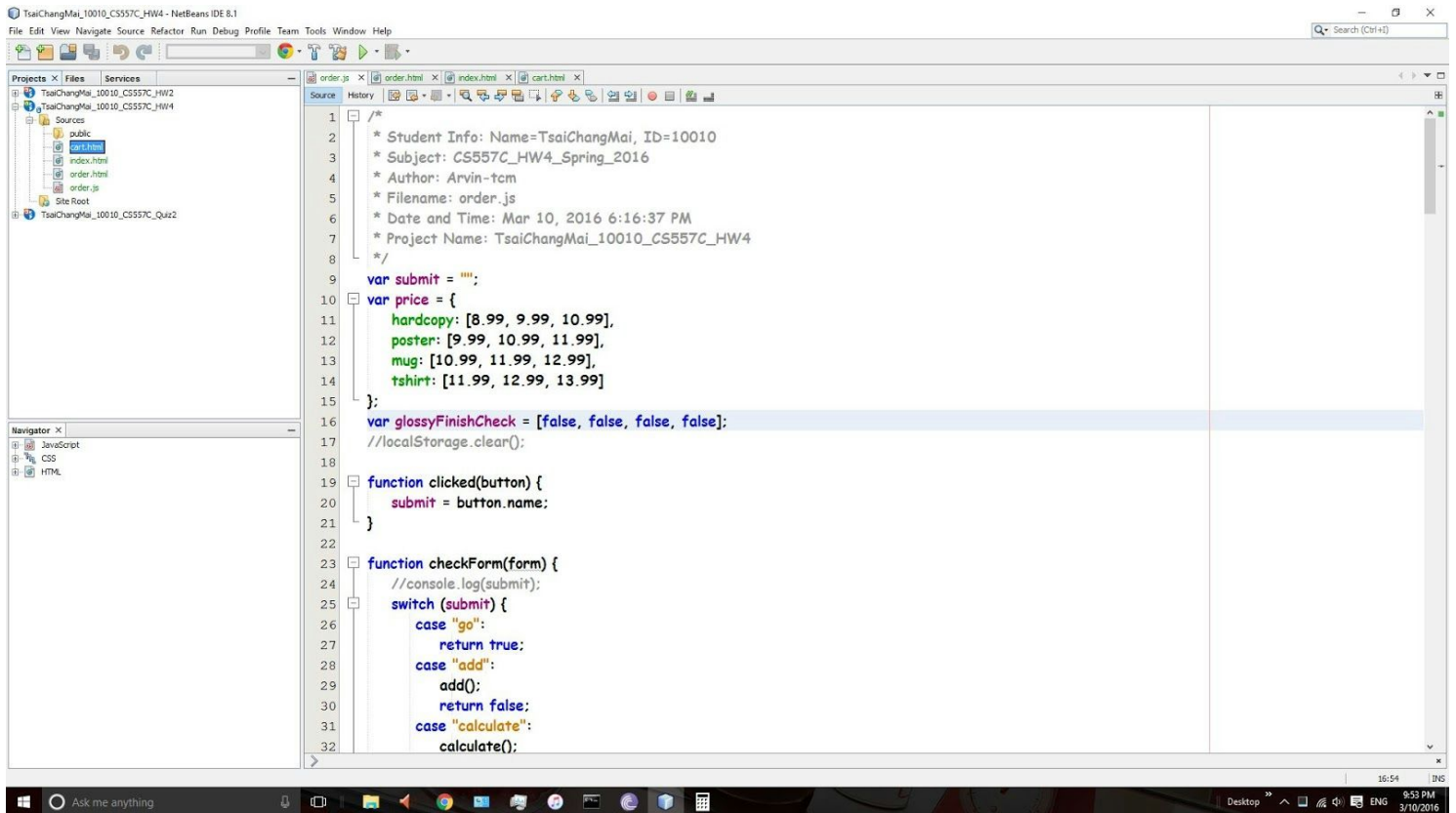


1) screenshot



2) HTML code

index.html`<!DOCTYPE html>``<!--`

Student Info: Name=TsaiChangMai, ID=10010

Subject: CS557C_HW4_Spring_2016

Author: Arvin-tcm

Filename: index.html

Date and Time: Mar 10, 2016 5:21:05 PM

Project Name: TsaiChangMai_10010_CS557C_HW4

`-->``<html>``<head>``<title>Image</title>``<meta charset="UTF-8">``<meta name="viewport" content="width=device-width, initial-scale=1.0">``<style>``#map {``width:400px;``height: 500px;``}``</style>``</head>``<body>`

```
<div style="background-color: yellow">
  <h1 style="color: purple">Home</h1>
  <div id="map"></div>
  <script>
    function initMap() {
      var mapDiv = document.getElementById("map");
      var map = new google.maps.Map(mapDiv, {center: {lat: 44.540, lng: -78.546}, zoom: 10});
    }
  </script>
  <script src="https://maps.googleapis.com/maps/api/js?callback=initMap" async defer></script>
</div>
</body>
</html>
```

order.html

```
<!DOCTYPE html>
<!--
Student Info: Name=TsaiChangMai, ID=10010
Subject: CS557C_HW4_Spring_2016
Author: Arvin-tcm
Filename: order.html
Date and Time: Mar 10, 2016 5:31:29 PM
Project Name: TsaiChangMai_10010_CS557C_HW4
-->
<html>
  <head>
    <title>Order</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="order.js" type="text/javascript"></script>
    <style>
      table, th, td {
        border-collapse: collapse;
      }
      table {
        border: 1px solid black;
      }
      th, td {
        padding: 8px;
        text-align: left;
      }
      button, input[type=submit] {
        width:100px;
      }
    </style>
  </head>
  <body>
    <h1>Form</h1>
```

```
<form action="cart.html" method="get" onsubmit="return checkForm(this)">
  <table>
    <tr style="border: 1px solid black;">
      <th>Quality of images</th>
      <td>
        <select id="img_quality">
          <option value="g">Good</option>
          <option value="v">Very Good</option>
          <option value="e">Excellent</option>
        </select>
      </td>
    </tr>
    <tr>
      <th rowspan="4">Type of items</th>
      <td><input type="radio" name="item" value="hardcopy" checked>Hard-copy prints<br></td>
    </tr>
    <tr>
      <td><input type="radio" name="item" value="poster">Posters<br></td>
    </tr>
    <tr>
      <td><input type="radio" name="item" value="mug">Coffee mugs<br></td>
    </tr>
    <tr>
      <td><input type="radio" name="item" value="tshirt">T-shirts<br></td>
    </tr>
    <tr style="border: 1px solid black;">
      <th>Glossy finish</th>
      <td><input type="checkbox" id="glossy">Yes/No</td>
    </tr>
    <tr style="border: 1px solid black;">
      <th>Quantity</th>
      <td><input type="number" id="quantity" min="1"></td>
    </tr>
    <tr>
      <td colspan="2"><input onclick="clicked(this)" type="submit" name="calculate"
value="Calculate"></td>
    </tr>
    <tr>
      <td colspan="2"><input onclick="clicked(this)" type="submit" name="add" value="Add to Cart"></td>
    </tr>
    <tr>
      <td colspan="2"><input onclick="clicked(this)" type="submit" name="go" value="Go to Cart"></td>
    </tr>
  </table>
</form>
<div id="result"><br><br></div>
</body>
</html>
```

order.js

```
/*
 * Student Info: Name=TsaiChangMai, ID=10010
 * Subject: CS557C_HW4_Spring_2016
 * Author: Arvin-tcm
 * Filename: order.js
 * Date and Time: Mar 10, 2016 6:16:37 PM
 * Project Name: TsaiChangMai_10010_CS557C_HW4
 */
var submit = "";
var price = {
    hardcopy: [8.99, 9.99, 10.99],
    poster: [9.99, 10.99, 11.99],
    mug: [10.99, 11.99, 12.99],
    tshirt: [11.99, 12.99, 13.99]
};
var glossyFinishCheck = [false, false, false, false];
//localStorage.clear();

function clicked(button) {
    submit = button.name;
}

function checkForm(form) {
    //console.log(submit);
    switch (submit) {
        case "go":
            return true;
        case "add":
            add();
            return false;
        case "calculate":
            calculate();
            return false;
    }
    return false;
}

function calculate() {
    console.log("cal start");
    var div = document.getElementById("result");
    var customer, total = 0;

    if (localStorage.customer === undefined) {
        div.innerHTML = "no record yet!";
        return false;
    }
}
```

```
var customerString = localStorage.customer;
console.log(customerString);
customer = JSON.parse(localStorage.customer);
printObject(customer);
console.log(calculateTotalPrice(customer));
console.log(timeToDeliver());
}
```

```
function add() {
    var customer;
    var quantity = document.getElementById("quantity").value;
    var item = validateItem();
    var quality = document.getElementById("img_quality");
    console.log(quantity);
    console.log(item);
    console.log(quality.options[quality.selectedIndex].text);
    if (localStorage.customer === undefined) {
        customer = {};
        customer.hardcopy = {
            good: 0,
            veryGood: 0,
            excellent: 0
        };
        customer.poster = {
            good: 0,
            veryGood: 0,
            excellent: 0
        };
        customer.mug = {
            good: 0,
            veryGood: 0,
            excellent: 0
        };
        customer.tshirt = {
            good: 0,
            veryGood: 0,
            excellent: 0
        };
    } else {
        customer = JSON.parse(localStorage.customer);
    }
    switch (item) {
        case "hardcopy":
            addByQuality(customer.hardcopy, quality.options[quality.selectedIndex].text, quantity);
            glossyFinishCheck[0] = true;
            break;
        case "poster":
            addByQuality(customer.poster, quality.options[quality.selectedIndex].text, quantity);
    }
}
```

```
        glossyFinishCheck[1] = true;
        break;
    case "mug":
        addByQuality(customer.mug, quality.options[quality.selectedIndex].text, quantity);
        glossyFinishCheck[2] = true;
        break;
    case "tshirt":
        addByQuality(customer.tshirt, quality.options[quality.selectedIndex].text, quantity);
        glossyFinishCheck[3] = true;
        break;
    }
    localStorage["customer"] = JSON.stringify(customer);
}
```

```
function addByQuality(item, quality, quantity) {
    switch (quality) {
        case "Good":
            item.good += +quantity;
            break;
        case "Very Good":
            item.veryGood += +quantity;
            break;
        case "Excellent":
            item.excellent += +quantity;
            break;
    }
}
```

```
function validateItem() {
    var items = document.getElementsByName("item");
    for (var i = 0; i < items.length; i++) {
        if (items[i].checked) {
            return items[i].value;
        }
    }
}
```

```
function printObject(obj) {
    for (var key in obj) {
        console.log(key);
        for (var value in obj[key]) {
            console.log(value, obj[key][value]);
        }
    }
}
```

```
function calculateTotalPrice(customer) {
    var total = 0;
```

```
for (var key in customer) {
  switch (key) {
    case "hardcopy":
      total += +calculateItemPrice(customer[key], "hardcopy");
      break;
    case "poster":
      total += +calculateItemPrice(customer[key], "poster");
      break;
    case "mug":
      total += +calculateItemPrice(customer[key], "mug");
      break;
    case "tshirt":
      total += +calculateItemPrice(customer[key], "tshirt");
      break;
  }
}
if (document.getElementById("glossy").checked === true) {
  for (var i = 0; i < glossyFinishCheck.length; i++) {
    if (glossyFinishCheck[i])
      total += +2;
  }
}
return total;
}
```

```
function calculateItemPrice(item, type) {
  var total = 0;
  for (var key in item) {
    switch (key) {
      case "good":
        total += +price[type][0] * +item[key];
        break;
      case "veryGood":
        total += +price[type][1] * +item[key];
        break;
      case "excellent":
        total += +price[type][2] * +item[key];
        break;
    }
  }
  return total;
}
```

```
function timeToDeliver() {
  var date = new Date();
  var days;
  for (var i = glossyFinishCheck.length - 1; i >= 0; i--) {
    if (glossyFinishCheck[i]) {
```

```

        days = i + 1;
        break;
    }
}
return new Date(date.getTime() + 24 * 60 * 60 * 1000 * days);
}

```

cart.html

```

<!DOCTYPE html>
<!--
Student Info: Name=Tsai-Chang Mai, ID=10010
Subject: CS557(C)_HW4_Spring_2016
Author: Arvin-tcm
Filename: cart.html
Date and Time: Mar 10, 2016 7:22:08 PM
Project Name: TsaiChangMai_10010_CS557C_HW4
-->
<html>
  <head>
    <title>Cart</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="order.js" type="text/javascript"></script>
    <script>
      var customer = JSON.parse(localStorage.customer);
      window.onload = function () {
        var table = document.getElementById("myTable");
        for (var key in customer) {
          for (var item in customer[key]) {
            if (customer[key][item] === 0)
              continue;
            var newRow = table.insertRow(table.rows.length);
            var cell1 = newRow.insertCell(0);
            var cell2 = newRow.insertCell(1);
            var cell3 = newRow.insertCell(2);
            var cell4 = newRow.insertCell(3);
            cell1.innerHTML = key;
            cell2.innerHTML = item;
            cell3.innerHTML = customer[key][item];
            var test = '<input type="submit" onclick="myRemove(this)" name="" + key + \'_\' + item + ">';
            console.log(test);
            cell4.innerHTML = '<input type="submit" onclick="myRemove(this)" name="" + key + \'_\' + item +
">';
          }
        }
      }
    </script>
  </head>
</html>

```



```
};
//<input onclick="clicked(this)" type="submit" name="calculate" value="Calculate"></td>
function myRemove(test) {
    console.log(test.name);
    var arr = test.name.split("_");
    customer[arr[0]][arr[1]] = 0;
    localStorage["customer"] = JSON.stringify(customer);
}
</script>
<style>
    table, th, td {
        border-collapse: collapse;
    }
    table {
        border: 1px solid black;
    }
    th, td {
        padding: 8px;
        text-align: left;
    }
    button, input[type=submit] {
        width:100px;
    }
</style>
</head>
<body>
    <h1>cart</h1>
    <form action="cart.html" method="get">
        <table id="myTable">

            </table>
    </form><br>
    <button onclick="location.href='order.html';">Go to Order</button><br><br>
    <button>Checkout</button>
</body>
</html>
```

3) result screen shot

CS557C_HW4_10010_TsaiChangMai

This screenshot shows the NetBeans IDE with the 'Order' form rendered in a browser window. The form includes a 'Quality of images' dropdown set to 'Good', radio buttons for 'Hard-copy prints', 'Posters', 'Coffee mugs', and 'T-shirts', a 'Glossy finish' checkbox, and a 'Quantity' input field set to 5. Buttons for 'Calculate', 'Add to Cart', and 'Go to Cart' are at the bottom.

The corresponding HTML code in the editor is as follows:

```

60      <th>Glossy finish</th>
61      <td><input type="checkbox" id="glossy">Yes/No</td>
62    </tr>
63    <tr style="border: 1px solid black;">
64      <th>Quantity</th>
65      <td><input type="number" id="quantity" min="1"></td>
66    </tr>
67    <tr>
68      <td colspan="2"><input onclick="clicked(this)" type="submit" name="calculate">Calculate</td>
69    </tr>
70    <tr>
71      <td colspan="2"><input onclick="clicked(this)" type="submit" name="addtocart">Add to Cart</td>
72    </tr>
73    <tr>
74      <td colspan="2"><input onclick="clicked(this)" type="submit" name="gocart">Go to Cart</td>
75    </tr>
76  </table>
77  </form>
78  <div id="result"><br><br></div>
79  </body>
80 </html>

```

This screenshot shows the NetBeans IDE with the 'Cart' form rendered in a browser window. The cart contains three items: 'hardcopy' (good, 5), 'poster' (good, 6), and 'mug' (good, 2). Each item has a 'Submit' button. At the bottom are buttons for 'Go to Order' and 'Checkout'.

The corresponding HTML code in the editor is as follows:

```

60      <th>Glossy finish</th>
61      <td><input type="checkbox" id="glossy">Yes/No</td>
62    </tr>
63    <tr style="border: 1px solid black;">
64      <th>Quantity</th>
65      <td><input type="number" id="quantity" min="1"></td>
66    </tr>
67    <tr>
68      <td colspan="2"><input onclick="clicked(this)" type="submit" name="calculate">Calculate</td>
69    </tr>
70    <tr>
71      <td colspan="2"><input onclick="clicked(this)" type="submit" name="addtocart">Add to Cart</td>
72    </tr>
73    <tr>
74      <td colspan="2"><input onclick="clicked(this)" type="submit" name="gocart">Go to Cart</td>
75    </tr>
76  </table>
77  </form>
78  <div id="result"><br><br></div>
79  </body>
80 </html>

```

