CSCI 165 (FLEX) Assignment#4

In this assignment, you are asked to create a web page with embedded jQuery code. On the index.html page, a user inputs two integers, then clicks to find out their **sum** or double-click to find out their **difference**.

Due: Dec 4, 2021 (Saturday morning) at 8 am

Submission: Submit ONLY the index.html file to the link " Assignment#4 Desc and Submission"

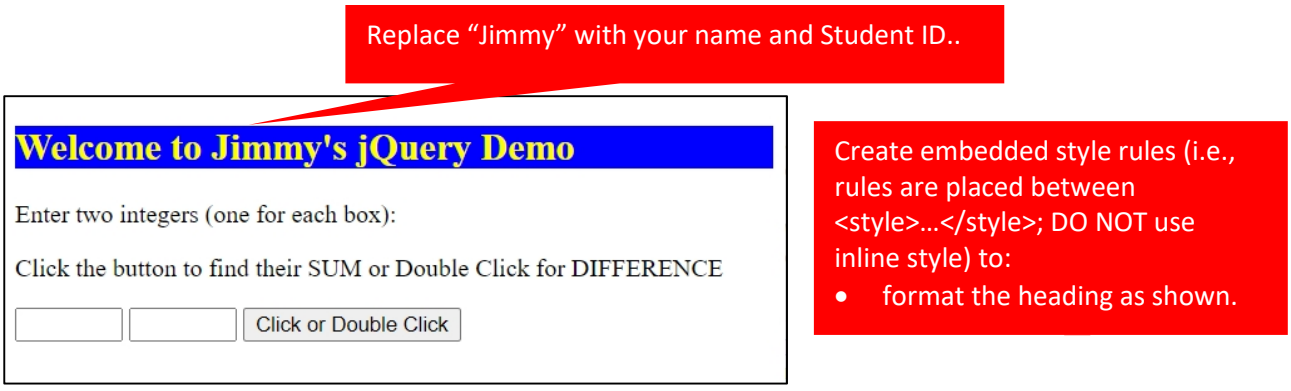
Note: You don't have to submit the "jquery-3.3.1.js" (the jQuery library), I will use mine when accessing your work.

Step 1:

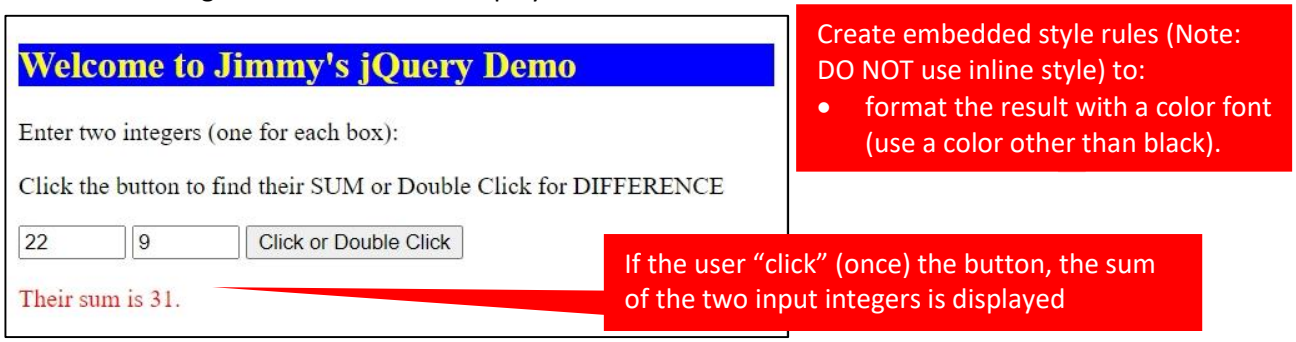
Download and open A_4.zip. Unzip it and open it with Notepad++. The framework of the program is given and you need to complete the program.

Step 2:

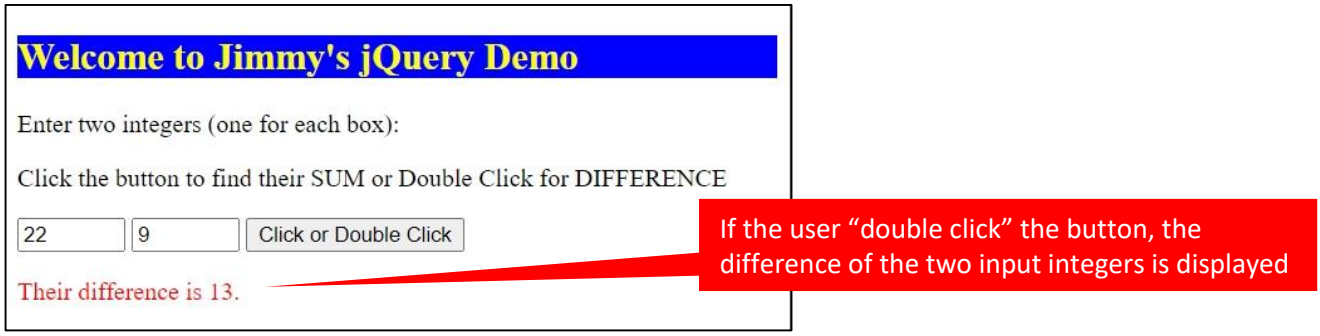
1. When completed, the page should perform the following functions:
   - When the page is launched, it has the following user interface.



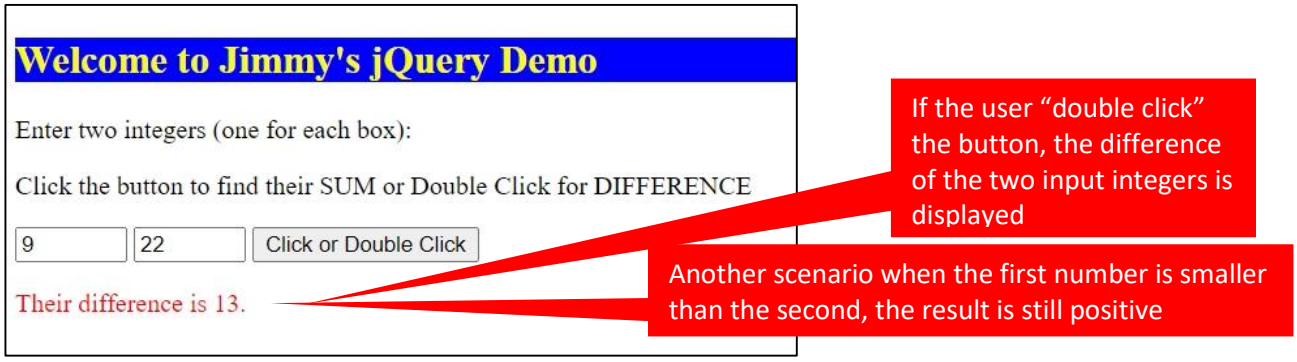
   - After entering two integers to the text boxes, the user can **click** (once) the button to find out the sum of the two integers. The sum is then displayed.



   - After entering two integers to the text boxes, the user can **Double click** the button to find out the difference of the two integers. The difference is then displayed.



- In the case when the first integer is smaller than the second one, the result is still a positive number



How to perform Sum and Difference in jQuery:

Sum is performed by the operation "+". For example, I can assign the result of (**num1** is added to **num2**) to the variable named **sum**:

```
var sum = num1 + num2;
```

Difference is performed by the operation "-". For example, I can assign the result of (**num1** subtracts **num2**) to the variable named **difference.** Since it is the "difference" between the two numbers, the result should always be positive. Therefore, the Math.abs() function is needed to cast the result:

```
var difference = Math.abs(num1 - num2);
```

Note: A number entering to the input box is a string, you need to use parseInt to cast (i.e., convert) it before assigning it to the variable number as in the following example.

```
var number = parseInt($("#input").val());
```

Assumption:

- To simplify the implementation, you can assume the user always enters integers. That is, you don't have to check whether an input is a non-numeric input or not.

Assessment

The following penalties will be applied when assessing your work. Penalty will also be applied to overall quality of work.

(Note: assessment on quality is subject to the decision of the instructor)

Web page/site do not display anything on the browser (i.e., there are error in your code, fix them before submitting you work)	-100% The most common mistake is "spelling error". Since the source code of the program is given, a request of sending your work to instructor before deadline and checking your code will not be accepted. Please use the features provided by the IDE, go through the program line by line, word by word and you can fix the error.
Requirements not fulfilled	Up to -100%; it depends on the % of requirements completed
Incorrect file name(s)	-5% per incorrect name (e.g., index.html.html, index(1).html, etc. are incorrect)
Unorganized code, improper code formatting,	Up to -30% (use Tab key instead of "a number of spaces" to make indentation, i.e., when you need to move a code statement to the right with indentation)