CSCI 165 (FLEX) Lab#10

Usually, a lab is made available on Wednesday, and due by Friday midnight of the same week.

jQuery is tailor-made to respond to events in an HTML page. An event represents the precise moment when something happens. Examples of events include "clicking or moving a mouse over an element". The objective of this lab is to program an action in jQuery when an event happens. In this lab, you will write a jQuery program that convert someone's height (in feet and inches) into inches only or centimeters only.

Requirements:

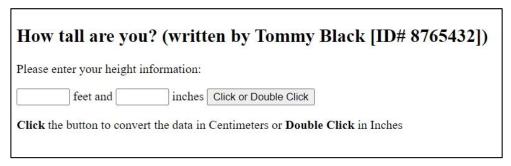
Step 1: Download the work file

Download and open LAB_10.zip. Unzip it and open it with Notepad++. The framework of the program is given and you need to complete the program.

Step 2: Learn the program from output scenarios

Look at the following scenarios to have some ideas of the programming logic of the jQuery function.

a. When the page is launched, it has the following user interface.



b. When the **mouse enters** any of the two input boxes, a "tip" message saying "Please enter an integer" appears. When the **mouse leaves** the boxes, the "tip" message disappears.

How tall are you? (written by To	mmy Black [ID# 8765432])
Please enter your height information:	
feet and inches Click or Doub	le Click
Click the button to convert the data in Centimeters of Please enter an integer number.	How tall are you? (written by Tommy Black [ID# 8765432]) Please enter your height information:
A "tip" appears when the mouse enters either the first or the second box	feet and inches Click or Double Click Click the button to convert the data in Centimeters or Double Click in Inches
	The "tip" disappears when the mouse leaves the boxes

c. After entering two integer numbers (feet and inches) for the height to the text boxes, the user can **click** (once) the button to find out height in centimeters. The result is then displayed.

How tall are you? (written by Tommy Blac	k [ID# 8765432])	
Please enter your height information:		
5 feet and 7 inches Click or Double Click		
Click the button to convert the data in Centimeters or Double Click in Inches		
Your height = 170.18 centimeters.	If the user "click" (once) the button, the height is converted to centimeters and displayed.	

d. After entering two integer numbers to the text boxes, the user can **Double click** the button to find out the height in inches. The result is then displayed.

How tall are you? (written by Tommy Black [ID# 8765432])		
Please enter your height information:		
5 feet and 7 inches Click or Double Click		
Click the button to convert the data in Centimeters or Double Click in Inches		
Your height = 67 inches.	If the user "double click" the button, the height is converted to inches and displayed.	

Step 3: Write the program code by editing the index.html

(The complete program code is shown on the next page)

Step 4: Save the index.html (DO NOT Rename it)

Step 5: Launch (i.e., Run) the Web page using a browser

- Test the page to make sure its programming logic is written correctly. Fix any error.
- When testing your page, please make sure the jQuery-3.3.1.js is in the same folder as the index.html.

Step 6: Submit ONE file only. That is, submit only the index.html

- Upload the index.html file to the submission link "Lab#10_Desc_Submission" on the Moodle course website.
- When assessing your work, I will use my jQuery-3.3.1.js library file.

```
<!DOCTYPE html>
3 d<head>
        <!-- jQuery Lab#10 -->
4
5
        <title>jQuery Page</title>
                                                                      Include the jQuery library
6
        <script src="jQuery-3.3.1.js"></script>
7
        <style>
8
            #tip {
9
                display: none;
10
                color: blue;
11
12
            p.answer {
13
                color: red;
14
15
        </style>
16 白
        <script>
                                                                     The event when the mouse is entered
17
        //complete your program using jQuery
                                                                     any of the input boxes.
18 白
        $ (document) .ready (function() {
19 自
            $("#feet, #inches").mouseenter(function(){
20
                $("#tip").css("display", "inline");
                                                                     The event when the mouse is left any
21
                                                                     of the input boxes.
            $("#feet, #inches").mouseleave(function(){
22 自
23
                $("#tip").css("display", "none");
24
            1);
25
                                                                        The event when the mouse is clicked
26 自
            $("#myButton").click(function(){
                var f = parseInt($("#feet").val());
                                                                        on the button
27
28
                var i = parseInt($("#inches").val());
29
                var cm = (f * 12 + i) * 2.54;
30
                $("#displayResult").text("Your height = " + cm + " centimeters.");
31
            });
32
            $("#myButton").dblclick(function(){
                                                                         The event when the mouse is
33
                var f = parseInt($("#feet").val());
                                                                         double- clicked on the button
                var i = parseInt($("#inches").val());
34
                var inches = (f * 12 + i);
35
                $("#displayResult").text("Your height = " + inches + " inches.");
36
37
            });
38
        });
39
        </script>
                                                                Replace "Tommy Black and [ID]"
40
    -</head>
                                                                with your name and Student ID.
41
   =<body>
42
        <h2>How tall are you? (written by Tommy Black [ID# 8765432])</h2>
43
44
        <section>
45
            Please enter your height information:
46
            >
47
                <input id="feet" type="text" size="5"> feet and <input id="inches" type="text" size="5"> inches
48
                <button id="myButton" type="button">Click or Double Click</button>
49
50
            <b>Click</b> the button to convert the data in Centimeters or <b>Double Click</b> in Inches 
51
            Please enter an integer number.
52
            53
        </section>
54
    -</body>
   </html>
```

<u>Assessment</u>

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)

	quality is subject to the decision of the motification,
Web page/site do not display	-100%
anything on the browser (i.e.,	The most common mistake is "spelling error". Since the source code of the program is given, a
there are error in your code, fix	request of sending your work to instructor before deadline and checking your code will not be
them before submitting you	accepted. Please use the features provided by the IDE, go through the program line by line,
work)	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	Up to -30% (use Tab key instead of "a number of spaces" to make indentation, i.e., when you
code formatting,	need to move a code statement to the right with indentation)