Labwork 2 : JavaScript/jQuery/Bootstrap

Exercise 1: Write a JavaScript program to convert temperatures to and from Celsius and Fahrenheit:

- Conversion Formula: $c/5 = (f-32)/9$ where c is temperature in Celsius and f is temperature in Fahrenheit.

Exercise 2: Write a JavaScript program to find the largest of five numbers. Display an alert box to show the result.

Exercise 3: Write a JavaScript program that iterates from 1 to 15. For each iteration, it will check if the current number is odd or even, and display a message to the screen. The output should be:

"1 is odd"

"2 is even" ….

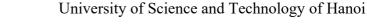**Exercise 4:** Use HTML/CSS/ JavaScript to create a form as the following.

Sign Up

Username: [   ]
Password: [   ]
Re-type Password: [   ]
[Reset] [Submit]

Write a JavaScript function that checks whether two entered passwords are identical. The function is called when users click the "Submit" button.

Exercise 5: Write a JavaScript program to calculate multiplication and division of two numbers:

- HTML form should be used to get inputs from user
- The interface of the program should look as follows:

Multiply and Divide two numbers:

1st Number : [   ]
2nd Number: [   ]
[Multiply] [Divide]

The Result is :

Exercise 6: Find all h1 elements that are children of a div element and apply a background to them:

- Sample Input HTML File:

```
<body>
        <h1>Introduction</h1>
        <div>
                <h1>About HTML</h1>
                <h1>About CSS</h1>
        </div>
        <h1>About JavaScript</h1>
</body>
```

Exercise 7: Write jQuery code to change the hyperlink and the text of an existing link:

- Sample link: USTH Website

Exercise 8: Attach a function to the blur event. The blur event occurs when the following <input> Field1 loses focus:

```
<body>
        <form>
                <input id="field1" type="text" value="Field 1">
                <input id="field2" type="text" value="Field 2">
        </form>
</body>
```

Exercise 9: Count the number of milliseconds between the two click events on a paragraph. Following are the sample data:

```
<body>
        <h1>Heading1</h1>
```

```
        <h2>Heading2</h2>
        <p>Paragraph</p>
        <button>Button</button>
        <div id="log"></div>
    </body>
```

Exercise 10: Use Bootstrap to design and develop a personal website to present yourself:

- Recommended information:
  - Personal information
  - Education and qualifications
  - Working experiences
  - Skills
  - Languages
  - Hobbies
  - Achievements

Note: You need to submit the source codes of your lab works to the google drive folder of the course.