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## **Web Application Development**

## **Exercise 2: JavaScript**

**Question 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.

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

**Question 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" ....

Question 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.

**Question 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 Div	ride

The Result is:

**Question 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>
```

**Question 7**: Attach a function to the blur event. The blur event occurs when the following <input> Field1 loses focus:

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

**Question 8**: Create a web page named task8.html, containing three links to other pages:

- Use property text-decoration to remove the underlines
- If a link is visited, then its color becomes red
- Change the color of the links to green when the mouse is over

**Question 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>
    Paragraph
    <button>Button</button>
    <div id="log"></div>
</body>
```