

Assignment (jQuery)

Subject: CSW1 (CSE2141)

Session: Sep 2022 to Jan 2023 Branch:

CSE&CSIT

Section: All

Question 1. Count child elements using jQuery. Note: Count number of "p" elements from the following:

```
<body>
<div id="selected">
<p>Red</p>
<p>White</p>
<p>Green</p>
<p>Black</p>
<p>Blue</p>
<p>Orange</p>
</div>
</body>
```

Question 2. Attach a click and double-click event to the <p> element.

```
<body>
<p> Click me! </p>
</body>
```

Question 3. 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>
```

Question 4. Show a popup box without using JavaScript alert.

Question 5. Create an HTML page which uses the following methods, (i) slideDown(), (ii) animate(), (iii) fadeIn(), (iv) hide(), (v) show(), (vi) mouseenter(), dblclick(), (viii) mouseleave(), (ix) attr(), and (x) html().

Question 6. Create a page which contains a table and add button which will add rows to this table. Change color of a text on button click. Add a text box and a button. Write code to remove all the elements which ID matches with the text entered in the text box upon clicking on the button.

Question 7. Create a sign-up form. Your users should be able to:

- (i) View the optimal layout for the site depending on their device's screen size
- (ii) See hover states for all interactive elements on the page
- (iii) Receive an error message when the form is submitted if:
 - (a) Any input field is empty
 - (b) The email address is not formatted correctly

Hints: Use `{var a = document.Forms["FormName"]["FieldName"].value; if (a == null) it is empty}` to check the field is empty or not;

In HTML5 you can do like this to check valid email address

```
<form>
```

```
<input type="email" placeholder="Enter your email">
```

```
<input type="submit" value="Submit">
```

```
</form>
```

One of the new values to the type attribute is email. Using this type of field instead of the regular text field the browser uses a regular expression to check that the user has in fact typed in an email address.

Question 8. Create a front-end page which performs Job listings with filtering. Include data of at least 20 Job categories, 100 jobs.

In this challenge, you will need to filter the job listings by the categories selected. You can use HTML, CSS, Java Script (jQuery).

Hint: Use JavaScript to filter items in the DOM. This is a key skill when building client-side applications.

Question 9. Build a game, namely Rock, Paper, Scissors. This Rock, Paper, Scissors game will require the advance skill of both your CSS skills and Java Script.

Your users should be able to:

- (i) View the optimal layout for the game depending on their device's screen size
- (ii) Play Rock, Paper, Scissors against the computer
- (iii) Maintain the state of the score after refreshing the browser (optional)

Question 10: Create a multi-page website which uses the optimal layout for each page depending on their device's screen size. The website performs the following.

- (a) See hover states for all interactive elements throughout the site
- (b) See the correct content for each team member on the About page when the + icon is clicked
- (c) Receive an error message when the contact form is submitted if:
 - (i) The Name, Email Address or Message fields are empty should show "This field is required"
 - (ii) The Email Address is not formatted correctly should show "Please use a valid email address".