Semester VII (CS, SE) (Fall 2023)
Course Instructor(s): Fahad Shahzad

Understanding of DOM

Lab Task(s):

Exercises

1. Write a JavaScript program to set the background color of a paragraph.

```html
<!DOCTYPE html>
<html>

<head>

 <meta charset=utf-8 />
 <title>JS Bin</title>
</head>

<body>
 <input type="button" value="Click to set paragraph background color"
 onclick="set_background()">
 <p>w3resource JavaScript Exercises</p>
 <p>w3resource PHP Exercises</p>
</body>

</html>
```

2. Here is a sample html file with a submit button. Write a JavaScript function to get the value of the href, hreflang, rel, target, and type attributes of the specified link.

```html
<!DOCTYPE html>
<html>

<head>
 <meta charset=utf-8 />
</head>
```

```
<body>
 <p><a id="w3r" type="text/html" hreflang="en-us" rel="nofollow" target="_self"
 href="http://www.w3resource.com/">w3resource</a></p> <button
onclick="getAttributes()">Click here to get attributes value</button>
</body>

</html>
```

33. Here is a sample html file with a submit button. Now modify the style of the paragraph text (such as fontSize, fontFamily, color, etc.)through javascript code.

```
<!DOCTYPE html>
<html><br>
<head>
 <meta charset=utf-8 />
 <title>JS DOM paragraph style</title>
</head>

<body>
 <p id='text'>JavaScript Exercises - w3resource</p> <div>
 <button id="jsstyle" onclick="js_style()">Style</button> </div>
</body>

</html>
```

4. Write a JavaScript function to add rows to a table.

```
<!DOCTYPE html>
<html>

<head><br>
 <meta charset=utf-8 />
 <title>Insert row in a table - w3resource</title> </head>

<body>
 <table id="sampleTable" border="1">
 <tr>
 <td>Row1 cell1</td>
 <td>Row1 cell2</td>
```

```html
      </tr>
      <tr>
      <td>Row2 cell1</td>
      <td>Row2 cell2</td>
      </tr>
      </table><br>
      <input type="button" onclick="insert_Row()" value="Insert row"> </body>

      </html>
```
5.Given the following HTML:
```html
      <!DOCTYPE html>
      <html lang="en">
      <head>
       <meta charset="UTF-8">
       <title>Document</title>
      </head>
      <body>
       <div class="header">
       </div>
       <section id="container">
       <ul>
       <li class="first">one</li>
       <li class="second">two</li>
       <li class="third">three</li>
       </ul>
       <ol>
       <li class="first">one</li>
       <li class="second">two</li>
       <li class="third">three</li>
       </ol>
       </section>
       <div class="footer">
       </div>
      </body>
```

Write the code necessary to do the following:

1. Select the `section` with an id of `container` without using `querySelector`. 2. Select the `section` with an id of `container` using `querySelector`. 3. Select all of the list items with a class of "second".
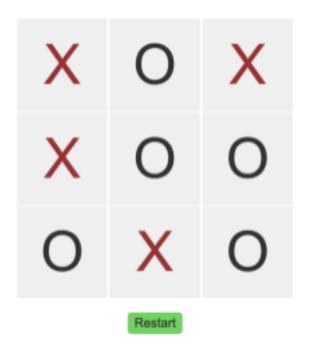
4. Select a list item with a class of third, but only the list item inside of the `ol` tag.
5. Give the `section` with an id of `container` the text "Hello!".
6. Add the class `main` to the `div` with a class of `footer`.
7. Remove the class `main` on the `div` with a class of `footer`.
8. Create a new `li` element.
9. Give the `li` the text "four".
10. Append the `li` to the `ul` element.
11. Loop over all of the `li`s inside the `ol` tag and give them a background color of "green".
12. Remove the div with a class of `footer`.

6. For this task you will be combining your knowledge of DOM access and events to build a todo app!

As a user, you should be able to:

- Add a new todo (by submitting a form)
- Mark a todo as completed (cross out the text of the todo)
- Remove a todo

Now using localStorage, try to store your todos so that if you refresh the page you do not lose what you have added to the list! As a super bonus, try to also save todos that you have marked as complete!

7. Create a Tic Tac Toe game with two players. Following is a sample output.

X	O	X
X	O	O
O	X	O

Restart

END

13

CSC-352: Web Engineering Lab 05: JavaScript Functions, Local Storage & DOM