LAB-03

DOCUMENT OBECT MODEL(DOM)

OBJECTIVE:

To learn what is DOM and the APIs is available for manipulating them .

Lab Task:

Code:

```
⇔ Lab02 task#01.html ×
  D: > 6th Semster > Web Engineering > LABS > \leftrightarrow Lab02 task#01.html > \leftrightarrow html
1 <!DOCTYPE html>
2 < html lang="en">
            <title>2019-SE-010 Lab02 Task#01</title>
             <style>
   10
                 div 4
                    border: 1px solid ■black;
   11
                     margin-left: 100px;
margin-left: inherit;
   12
   13
   14
                     margin: 25px 75px 100px 100px;
   15
   17
   18
                     margin: 25px 75px 100px 100px;
   19
   20
                 .highlight {
                    background-color: □#00FFFF;
   22
   25 🗸
   26
                     border-collapse: collapse;
                     width: 100%:
   27
   29
   31 🗸
                 td {
                     padding: 8px;
   32
                     text-align: left;
                     border-bottom: 1px solid □#ddd;
   36
                 .button1 {
                   background-color: □white;
color: ■black;
   38
   39
                     border: 3px solid □#4CAF50;
/* Green */
   41
                     float: center;
   43
   45
                 a:link {
                     color: ■red;
   46
                 /* visited link */
   48
   49
   50
                 a:visited {
                     color: ■green;
   51
                 /* mouse over link */
   53
   55
   56
                    color: hotpink;
                 /* selected link */
   58
                 a:active {
    color: ■blue;
   60
```

```
♦ Lab02 task#01.html ×
D: > 6th Semster > Web Engineering > LABS > \( \cdot \) Lab02 task#01.html > \( \phi \) html

114 | \( \left\) \( \text{type="button" value="Update Course" onclick="updateCourse();" class="button1" />
                              </center>
 115
                      </div>
 117
                    <script type="text/javascript">
   // JavaScript Code to Highlight any
   // row in the given table.
   document.getElementById('table_to_highlight')
 118
 119
 120
 121
                                      .addEventListener('click', function(item) {
 122
 123
                                            // To get tr tag
// In the row where we click
var row = item.path[1];
 124
 125
 126
 127
 128
                                             var row_value = "";
 129
 130
                                              for (var j = 0; j < row.cells.length; j++) {
 131
                                                    row_value += row.cells[j].innerHTML;
row_value += " | ";
 132
 133
 134
 135
 136
                                             alert(row_value);
 137
                                              // Toggle the highlight
if (row.classList.contains('highlight'))
 138
                                                     row.classList.remove('highlight');
 140
 142
                                                     row.classList.add('highlight');
 144
                               //This declarative function will be called on 'Add New Row' button click and add new row
                               function addNewCourse()
 146
                                      //1 - Find the 'body' element
 148
                                      const body = document.querySelector('tbody');
 150
                                     //2 - Create elements using document.createElement API (method)
const row = document.createElement('tr'); //Create 'tr' element
const tdCourseID = document.createElement('td'); //Create 'td' element
const tdCourseName = document.createElement('td'); //Create 'td' element
const tdCreditHours = document.createElement('td'); //Create 'td' element
const tdYearTaken = document.createElement('td'); //Create 'td' element
 151
 152
 154
 155
 156
 157
                                     const courseId = ((Math.round(Math.random() * 100)) + 4);
const courseName = ((Math.round(Math.random() * 500)) + 50);
const creditHours = ((Math.round(Math.random() * 1)) + 2);
const yearTaken = (Math.round(Math.random() * 2020)) + 2020;
row.id = 'row' + courseId;
 158
 159
 160
 161
 162
 163
                                     //3 - Update td's 'innerHTML' (basically element content - anything within the angle brackets)
tdCourseID.innerHTML = 'Course ' + courseId;
tdCourseName.innerHTML = 'Course - DDM - ' + courseName;
tdCredithours.innerHTML = credithours;
tdYearTaken.innerHTML = vearTaken;
 164
 165
 166
 167
```

```
⇔ Lab02 task#01.html ×
D: > 6th Semster > Web Engineering > LABS > \iff Lab02 task#01.html > \iff html > \iff body
                         tdCreditHours.innerHTML = creditHours;
                         tdYearTaken.innerHTML = yearTaken;
 168
                         //4 - Insert newly created 'td's into newly created 'tr' using element's appendChild API
 170
                         row.appendChild(tdCourseID);
row.appendChild(tdCourseName);
 172
                         row.appendChild(tdCreditHours);
                         row.appendChild(tdYearTaken);
 174
                         //5 - Finally insert newly created 'row' into 'body' element
 176
                         body.appendChild(row);
 178
                    function deleteCourse() {
    //Ask for course# using prompt
    const courseId = prompt('Please enter course ID');
 180
 182
 183
 184
                         //If user has entered course#
                              //Find the row containing the 'course #' entered by the user
const row = document.getElementById('row' + courseId);
 186
 187
 188
                                   (row) {
//Find the parent of the 'row' just found so that it can be removed from its child list
const body = document.querySelector('tbody');
 189
 190
 191
                                    //Finally remove it from 'tbody' element
body.removeChild(row);
 192
 193
 194
 195
 196
 197
 198
                    function updateCourse() {
   //Ask the course# and year taken
 199
 200
                         const newCourseYear = prompt('Please enter course# and new year delimited by comma');
 201
 202
                         //If the user has entered course# and year taken
                         if (newCourseYear) {
 203
                               //Split the comma separated input entered by the user. Example input; 3,2021
 205
                              const courseId = newCourseYear.split(',')[0];
const courseYear = newCourseYear.split(',')[1];
 206
 207
                               //Find the row containing the 'course #' entered by the user
const row = document.getElementById('row' + courseId);
 209
                                    //Find the 'year taken' td element within the 'row' entered by the user
const tdYearTaken = row.querySelector('#row' + courseId + ' > td:nth-child(3)');
 211
 213
                                    //Finally update the new 'year taken' entered by the user using 'innerHTML' property of element
 215
                                    tdYearTaken.innerHTML = courseYear:
 217
 218
 219
               </script>
          </body>
```

Output:



Syed University of Engineering and Technology is a private research university located in the urban area of Karachi, Sindh, Pakistan.

The university is honored in the name of notable 19th-century Indian Muslim reformer and philosopher, Sir Syed Ahmad Khan

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Course ID	Course Name	Credit Hours	Year Taken		
SWE314L 203	ARTIFICIAL INTELLIGENCE	3+1	2021		
SWE312T - 2190	SOFTWARE CONSTRUCTION & DEVELOPMENT	3+1	2021		
SWE209L - 1483	INTRODUCTION TO DATABASE SYSTEMS	3+0	2020		
SWE204L - 1837	OPERATING SYSTEMS	3+0	2020		
Add New Course Delete Course Uodate Course					

Add New Course:



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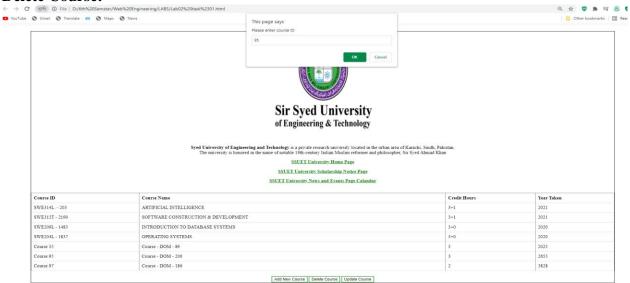
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SWE204L - 1837	OPERATING SYSTEMS	3+0	2020		
Course 35	Course - DOM - 89	3	2025		
Course 95	Course - DOM - 206	3	2655		
Add New Course Debte Course Undate Course					

NAME: FARAZ AHMED (2020-SE-252)





Update Course:



Home Task

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>lab3 home task</title>
</head>
<body>
    <div><center>
        <h1>Student Registration Form</h1></center>
         <form name="yes" onsubmit="check()">
             <label>student name:</label>
<input type="text" name="Name" placeholder="Student Name"/>
             <label>email:</label>
             <input type="text" name="Email" placeholder="Student Name"/>
             <label>password:</label>
             <input type="text" name="Password" placeholder="Student Name"/>
             <label>phone no:</label>
             <input type="text" name="Phone" placeholder="Student Name"/>
             <button>click me</button>
         </form>
        <script>
             function check() {
                 var name = document.forms.yes.Name.value;
var email =document.forms.yes.Email.value;
                  var password =document.forms.yes.Password.value;
                  var phone =document.forms.yes.Phone.value;
                  if (name == "") {
                      window.alert("Please enter your name properly.");
                      name.focus();
                      return false;
                  if (email == "") {
                      window.alert("Please enter a valid e-mail address.");
                      email.focus();
                      return false:
```

```
if (password == "") {
                    alert("Please enter your password");
                    password.focus();
                    return false;
                if(password.length <6){</pre>
                    alert("Password should be atleast 6 character long");
                    password.focus();
                    return false;
                if (phone == "") {
                    alert("Please enter valid phone number.");
                    phone.focus();
                    return false;
                return true;
        </script>
    </div>
</body>
</html>
```

Output:

Student Registration Form

