



**Department of Statistics & Computer Science**  
**University of Kelaniya**  
**Academic Year 2023/2024**  
**COSC 31103/ BECS 31233 - Web & Internet Technologies**  
**Lab Sheet 07**

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01) Create your first JavaScript program following the instructions below.

- Open the Notepad editor and write the code as shown in the image.

```
<html>
<head>
  <title>My First JavaScript Code!!</title>
</head>
<body>
  <script type="text/JavaScript">
    document.write("Hello World!");
  </script>
</body>
</html>
```

- Save your HTML document as first.html.
- Open your document on any web browser and check your output.
- **You can use document.write() statement to display data on web page using JavaScript.**

02) Create a JavaScript program to print the following output on a web page.

Welcome to the First JavaScript Practical Session!!!

03) Create a JavaScript program to print your name, student number and course code.

04) Change the above code to print your name, student number and course code line by line using the **<br>** tag inside the document.write() statement.

05) Create your JavaScript program as an external JavaScript file.

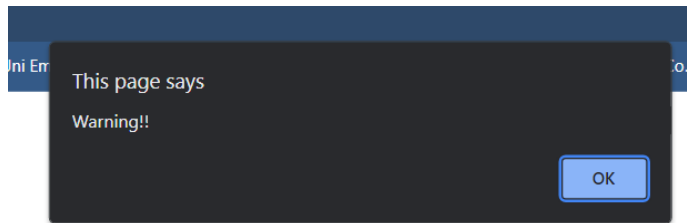
- Open a new file in the Notepad editor and include the following code segment.

```
function message(){
    alert("Warning!!");
}
```

- Save your document as firstjs.js in your work folder.
- Then, create an HTML document and include the following code segment.

```
<html>
<head>
  <title>JavaScript Code!!</title>
  <script type="text/JavaScript" src="firstjs.js">
  </script>
</head>
<body onload="message()">
</body>
</html>
```

- Open your document on any web browser and check the output.
- **To include an external JavaScript file to your HTML, you need to give the JavaScript file path as the value of the 'src' attribute.**
- Your output should look as follows.



06) Create a JavaScript program to display the output of question 05), without using an external JavaScript file.

07) Create a JavaScript program to add comments.

- You can use `//` to add single comments in JavaScript.
- You can use `/*` to add multi-line comments in JavaScript.
- Create an HTML document and include the following code segment.

```
<html>
<head>
  <title>My First JavaScript Code!!</title>
</head>
<body>
  <script type="text/JavaScript">
    //This is a single line comment
    document.write("Welcome to the first JavaScript Practical Session");

    /*This is a
    multi-line
    comment*/
  </script>
</body>
</html>
```

08) Find the output of the following code segment.

```
<html>
<head></head>
<body>
  <script type="text/javascript">
    var author;
    var bookname;
    var country;

    author="Leo";
    document.write(author);

    author= "Tolstoy";
    document.write(author);
    document.write("<br />");

    bookname="Anna Karenina";
    document.write(bookname);
    document.write("<br />");

    country="Russia";
    document.write(country);
    document.write("<br />");
  </script>
</body>
</html>
```

09) Create a JavaScript program to display the current time with hours, minutes and seconds as the output.

```
<html>
<head>
  <script type="text/javascript">
    var d=new Date();
    var hour=d.getHours();
    var minute=d.getMinutes();
    var second=d.getSeconds();

    document.write("Now the time is = " + hour + ":" + minute + " " + second);
  </script>
</head>
<body>
</body>
</html>
```

- **The Date object in JavaScript is a built-in object that represents a single moment in time. Once a Date object is created, a number of methods allow you to operate on it.**

010) Generate the greeting based on the following conditions using JavaScript. The output should be displayed in bold font.

- If the current time is less than 12 noon, then the greeting should be “Good Morning”.
- Otherwise, the greeting should be “Good Bye”.

```
<html>
<head>
  <script type="text/javascript">
    var d=new Date();
    var time=d.getHours();

    if(time<12)
    {
      document.write("<b>Good Morning</b>");
    }
    else{
      document.write("<b>Good Bye</b>");
    }
  </script>
</head>
<body>
</body>
</html>
```

011) Write a JavaScript program that displays a message indicating the part of the day based on the current time, using the following conditions. The output should be in italics format.

- If the time is between 6:00 a.m. and 11:59 a.m., display: “Good Morning!”
- If the time is between 12:00 p.m. and 4:59 p.m., display: “Good Afternoon!”
- If the time is between 5:00 p.m. and 8:59 p.m., display: “Good Evening!”
- If the time is between 9:00 p.m. and 5:59 a.m., display: “Good Night!”

```

<html>
<head>
  <script type="text/javascript">
    var d = new Date();
    var hour = d.getHours();

    if (hour >= 6 && hour < 12) {
      document.write("<i>Good Morning!</i>");
    }
    else if (hour >= 12 && hour < 17) {
      document.write("<i>Good Afternoon!</i>");
    }
    else if (hour >= 17 && hour < 21) {
      document.write("<i>Good Evening!</i>");
    }
    else {
      document.write("<i>Good Night!</i>");
    }
  </script>
</head>
<body>
</body>
</html>

```

012) Write a JavaScript program using a switch statement to display a message based on the user's favorite color. The output should be displayed in bold font.

```

<html>
<head>
  <script type="text/javascript">
    var favoriteColor = "green";

    switch(favoriteColor.toLowerCase()) {
      case "red":
        document.write("<b>You like red.</b>");
        break;
      case "blue":
        document.write("<b>You like blue.</b>");
        break;
      case "green":
        document.write("<b>You like green.</b>");
        break;
      case "yellow":
        document.write("<b>You like yellow.</b>");
        break;
      default:
        document.write("<b>You like another color.</b>");
    }
  </script>
</head>
<body>
</body>
</html>

```

013) Create a JavaScript program to pop up an alert box when loading your page.

```

<html>
<head>
  <script type="text/javascript">
    function alertbox()
    {
      alert("Hello COSC 31103/ BECS 31233!!!");
    }
  </script>
</head>
<body onload="alertbox()">
</body>
</html>

```

- You can use any name for the function name, but the same name should be used in the onload attribute.

014) Create a JavaScript program to pop up a confirm box when the user clicks on a button.

```
<html>
<head>
  <script type="text/javascript">
    function confirmation()
    {
      var answer = confirm("Leave the website?");

      if (answer)
      {
        alert("Bye bye!");
        window.location = "http://www.google.com/";
      }
      else {
        alert("Thanks for sticking around!");
      }
    }
  </script>
</head>
<body>
  <form>
    <input type="button" onclick="confirmation()" value="Leave">
  </form>
</body>
</html>
```

015) Create a JavaScript program to pop up a prompt box when the user clicks on a button.

```
<html>
<head>
  <script type="text/javascript">
    function show_prompt()
    {
      var name = prompt("Please enter your name","");

      if (name!=null && name!="")
      {
        document.write("Hello " + name + "! How are you today?");
      }
    }
  </script>
</head>
<body>
  <input type="button" onclick="show_prompt()" value="Show prompt box">
</body>
</html>
```

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Submit your answers as a zipped folder with the word document including source code along with screenshots of your outputs and html and js files on or before **09<sup>th</sup> June 2025** to ekel.