

SSE 3200 Javascript Lab (Part 1 of 2)

Introduction

Javascript is a programming language designed to run in web environments. Even though the name contains “Java”, Javascript is not related to Java other than being a high level programming language. Javascript has the basic language constructs but it is much more limited in scope as compared to Java. It is called a “scripting language” due to its limited scope.

The most common usage of Javascript is from html documents. The Javascript portions are tagged as scripts, and the browser calls the interpreter to execute the Javascript commands.

The most important feature of Javascript is that it runs on the client machine. In contrast, PHP scripts run on the server machine.

Basics

1. Go to the *JS How to* page at <http://www.w3schools.com/js/default.asp>.
2. Try out the second example that prints “Hello World!” in H1 fonts.
3. Change the example such that it prints:
Hello **World!** *How are you today?*
4. Type the following line after the line containing `document.write` and before the end tag of the script:

```
alert("We are doing a SSE3200 lab right now.");
```

It will display an alert box.

Alert box in the header

1. Go to the *JS Where to* page.
2. Run the first example under the title “Scripts in <head>”.
3. Add another function below the `message` function:

```
function add(x,y)
{
  return x+y;
}
```
4. Run the example to observe that the behavior does not change.
5. Add a call to the `add` function by changing the alert line:

```
alert("Did you know that the result is:  " + add(7,8) + "?");
```
6. Run the example to the text and the result printed in the alert box.

If-then-statements

1. Browse the sections on *JS Statements*, *JS Comments*, *JS Variables*, *JS Operators*, and *JS Comparisons*.
2. Go to the *If... Else* page.
3. Run the second example which prints “Good morning” if the time is less than 10, and “Good day” otherwise.
4. Add the following lines after the declaration of time:

```
var day = d.getDay();
```

```
document.write(" The Date is:  " + d + "<BR>");  
document.write(" The hour is:  " + time + "<BR>");  
document.write(" The day is:   " + day + "<BR>");
```

5. Run the modified example.
6. Browse the *JS Switch* section.

Buttons

1. Go to the *JS Popup Boxes* page.
2. Run the “Alert Box” example.
3. (You will be graded on the following.)

Change the example so that it prints seven buttons labeled with the days of the week. The buttons should be preceded by the text “Click on your favorite day:” If the current day is the same as the favorite day, display an alert box that says “Today is your favorite day!” Otherwise display an alert box tells how many days they have to wait for their favorite day.

4. E-mail me your script with “favorite day script” on the subject line.