

LBSC 690: Information Technology

Homework 07:

Programming and Javascript

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The following questions involve writing simple Javascript programs. Each program should be embedded in HTML, like so:

```
<html><body><script type="text/javascript">  
// Your program goes here  
</script></body></html>
```

Say the above HTML file is saved as `js.html`. To run the program, go to `File > Open File` in your browser and open the specified file. To re-run the program, you'll have to reload the page. Before running the program, it is strongly advised that you open up the error console, to view errors that the browser reports in your Javascript code. To open the console under Firefox, go to `Tools > Web Developer > Error Console`.

Before attempting any of these questions, it is a good idea to copy some of the lecture examples verbatim and run them in your browser. You are likely to make mistakes in copying, and this will help you learn some debugging!

When you've finished, upload these programs to your web space, and email the URLs to `wew@umd.edu`.

Question 1:

Write a Javascript program that prints the message "Yes, we have no bananas!" to the browser window.

```
<html>  
<body>  
  <script type="text/javascript">  
    document.write("Yes, we have no bananas!");  
  </script>  
</body>  
</html>
```

Question 2:

Write a Javascript program that asks the user to enter their name, then prints, "Hello, NAME!" to the browser window, where NAME is the name they enter.

```
<html>
  <body>
    <script type="text/javascript">
      var name = prompt("What is your name?");
      document.write("Hello , " + name + "!");
    </script>
  </body>
</html>
```

Question 3:

Write a Javascript program that prompts the user to enter a number, say n, then calculates 2^n (two raised to the nth) power, and prints it out to browser window.

```
<html>
  <body>
    <script type="text/javascript">
      var n = Number(prompt("Please enter a number:"));
      var i;
      var pow = 1;
      for (i = 0; i < n; i++) {
        pow = pow * 2;
      }
      document.write("2^" + n + " = " + pow);
    </script>
  </body>
</html>
```