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CS 3160-001
Assignment 6
11/21/18

1. **JavaScript compiled or interpreted? How are errors caught?**

   JavaScript is an interpreted language. Errors are caught by the interpreter. The interpreter reads over the JavaScript code line-by-line and interprets each one. This is how the errors are found. Furthermore, browsers generally have a built-in debugger, which will catch errors.

2. **Implement** students **variable, initially with JSON → "Andreas" : "MS Student" and "Vinodini" : "Phd Student"**
   Assumption: make an array called students with both Andreas and Vinodini in the array.

   ```
   var students =[
      {"firstName":"Andreas", "studentType":"MS Student"},
      {"firstName":"Vinodini", "studentType":"Phd Student"},
   ];
   ```

3. **Given** var numbers = [45, 4, 9, 16, 25]; **write a function to output odd numbers to console.**

   ```
   function outputOdd(numArray) {
      for (var i = 0; i < numArray.length; i++)
      {
         if (numArray[i] % 2 != 0)
            console.log(numArray[i]);
      }
   }

   var numbers = [45, 4, 9, 16, 25];
   outputOdd(numbers);
   ```

   Output:
     45
     9
     25

4. **Find webpage with JavaScript in it, give URL, summarize a script on the page.**

   https://www.w3schools.com/js/js_examples.asp has JavaScript to display an ad on the page. The script begins by getting a specific document element to display the ad in. It then styles the ad to a specific size to fit on the page. It will also alter the position the ad is displayed on the page. It displays the ad depending on the size of the user's window and pixel settings.

5. **Modify script to print each element form the form (frm1) in the "demo" paragraph.**

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

<form id="frm1" action="/action_page.php">
   First name: <input type="text" name="fname" value="Donald"><br>
   Last name: <input type="text" name="lname" value="Duck"><br>
   Date of Birth: <input type="text" name="dob" value="14-01-1991"><br>
       <br>
   <input type="submit" value="Submit">
</form>

<p>Click "Try it" to display the value of each element in the form.</p>
<button onclick="myFunction()">Try it</button>

<p id="demo"></p>

<script>
function myFunction() {
   var form = document.getElementById("frm1");
   var input = "";
   for (var i = 0; i < form.length; i++) {
      input += form.elements[i].value + "<br>";
   }
   document.getElementById("demo").innerHTML = input;
}
</script>
</body>
</html>
```