

Hand in a stapled, printed copy with your answers.

Homework:
/SI110/The Cyber Battlefield/Web-HTML Client-Side Scripting: Forms

1. Consider this HTML file:

```
<html>
  <head></head>
  <body>
    <form name="Dinner">
      <b> Enter a selection: </b>
      <p>
        Appetizer: <input type="text" name="a" value="Shrimp Cocktail">

        Main Course: <input type="text" name="m" value="Lobster"> </p>
      <input type="button" value="Place Order">
    </p>
  </form>
</body>
```

a. Draw what the page looks like when it is first loaded:

b. Which of the following makes the second text input box have the value "Butterfish"?

- (1) document.Dinner.value.a = "Butterfish"
- (2) document.Dinner.value.m = "Butterfish"
- (3) forms.form.input.m.value = "Butterfish"
- (4) document.Dinner.m.value = "Butterfish"

Answer:

(... continued on back)

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2. Consider this HTML file for a webpage with a form:

```
<html>
  <head></head>
  <body>
    <script type="text/Javascript">
      var N = Math.floor(Math.random()*101);
    </script>
    <form name="userinput" onsubmit="return false">
      Guess a number:
      <input type="text"
        name="guess"
        onchange='
          var g = document.forms.userinput.guess.value;
          var r = "Bad input!";
          if (g < N) { r = "higher"; }
          if (g > N) { r = "lower"; }
          if (g == N) { r = "Correct!" }
          document.getElementById("output").innerHTML = r;'
      >
    </form>
    <b id="output"></b>
  </body>
</html>
```

When the page is first loaded it simply has "Guess a number:" with a blank box next to it. Describe how the web page changes if the user types the number 50 into the text box and presses enter. Note: This may involve several cases.

3. Challenge: The above page is viewable at:

<http://rona.cs.usna.edu/~si110/lec/l14/hw/hw01.html>

Describe how you, as a user, can cheat on this guess-a-number game so that you "guess" correctly on the first try every time.

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```
<html>
  <head></head>
  <body>
    <form name="buttonForm" onsubmit="return false;">

      <input type="text" name="x" value="2">
        <input type="button"
          value="Square It"
          onclick="var t = document.forms.buttonForm.x.value;
            document.forms.buttonForm.x.value = t*t;">

    </form>
  </body>
</html>
```

4. Rewrite the **red** code so that the form takes two numbers from the user (via text box), divides them, and outputs the rounded result to a third text box when the user clicks on the button. Create an HTML document to test your code and write your answer below!