

The following is in the body of some responsive HTML annotated with line numbers that is using bootstrap. You will modify this code to accomplish the given tasks for question 2.

```
01:<form>
02:  <label for="form1_size">Size is: </label>
03:  <input type="number" id="form1_size" name="form1_size"> <br>
04:  <label for="form1_word">Word is: </label>
05:  <input type="text" id="form1_word" name="form1_word">
06:  <label for="form1_cost">Cost is: </label>
07:  <input type="number" id="form1_cost" name="form1_cost">
08:</form>
```

```
09:<div class="container-fluid">
10:  <h1 id="fred">Responsive Design</h1>
11:  <p id="wilma">Resize the browser window</p>
12:  <p id="betty">To see the effect</p>
13:  <div class="row" id="bit">
14:    <div class="col-sm-2" id="one">ALF </div>
15:    <div class="col-sm-2" id="two">BOGO</div>
16:    <div class="col-sm-2" id="three">GPU</div>
17:    <div class="col-sm-2" id="four">DOD </div>
18:</div>
19:<button type="button" class="btn btn-success">Opt1</button>
20:<button type="button" class="btn btn-warning">Opt2</button>
```

```
<script>
function colorMe()
{
  document.getElementById('one').style.background='orange'
  document.getElementById('one').className='col-sm-4'
  // other ways to set class name
  document.getElementById('fred').innerHTML='orange is the new black'
}
</script>
```

Question 2 (10 points)

Task 1 (2 points): Modify the cost input so that it has a default value of 12.34. Give the line number of the HTML you are changing and what you are changing the line to.

Line #: 7

Modified to: `<input type='number'... value=12.34>`

Task 2 (6 points): Create a Javascript function named `colorMe` that will make the div containing ALF use 4 columns and change its background color to orange. It should then change the contents of the h1 element to “orange is the new black”. Write the Javascript and appropriate HTML tags below line 20 on the previous page.

Task 3 (2 points): Modify the HTML so pressing the Opt1 button will call the function you wrote in task 2. Give the line number of the HTML you are changing and what you are changing the line to.

Line #: 19

Modified to: `<button ... onclick='colorMe()'>Opt1</button>`

Question 3A (6 points) Write a Javascript function (no HTML needed) that takes an array of numbers, creates an Object that contains the sum of the squares of the numbers and the smallest number in the array (choose appropriate keys to use for these values), and returns the object.

```
function (vals) { // no name needed, but can provide one
  let sumsquares = 0
  let minval = vals[0]
  for val of vals {
    sumsquares += val*val
    if (val < minval) minval = val;
  }
  return {'avg': avg, 'min': minval}
}
```

Question 3B (4 points) Given the following Javascript

```
function foo (somenumbers) {
  bar = 0
  for (num of somenumbers) {
    if (num % 2 == 0) bar -= 1
    else bar += num
  }
  setTimeout(()=>alert(`Result is ${bar}`), 4000)
}
```

What happens when `foo([1,2,3,4,5,6])` is called? Specifically what is the output and when/how is it displayed to the user?

The value 6 is displayed in the alert text 4 seconds after the function is called

Midterm 2

You are allowed to use your single page of hand written notes as a reference.

1 2 points

Variables starting with the character _____ signify a private variable.

- ☒ Underscore
- ☐ dollar sign
- ☐ hash
- ☐ Colon

2 2 points

Which tag is used to hold JavaScript code?

- ☐ <javascript>
- ☐ <js>
- ☐ <code>
- ☒ <script>

3 2 points

Which of the following is not a Bootstrap class that can be used with a button?

- ☐ btn-danger
- ☐ btn-warning
- ☒ btn-java-script
- ☐ btn-success

4 2 points

Which of the following is not a feature of Java Script?

- ☐ Light weight
- ☒ Many primitive types
- ☐ Code is interpreted
- ☐ Variables are untyped

5 2 points

Free Question

The basic table styling can be done using which class?

- ☐ table container
- ☐ style table
- ☐ tbl
- ☒ table