UNIVERSITI MALAYSIA TERENGGANU

CSM3503 PENGATURCARAAN FRONT-END

LAB 4 REPORT

SEMESTER II 2021/2022

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TASK 1

You are given Lab4Task1.html. Open the file using browser. Clicking Change! does not do anything. That is because our JavaScript and jQuery code has not yet been written. When the button is clicked, we want all occurrences of the word Blue to be changed to the text in the input field, e.g., Purple.

INDEX.JS

```javascript
$(function(){
    var button = $("#button_change");


    $(button).click(function() {

        var inputValue = $("#input_color").val();


        var element = $(".cow_color");


        $(element).html(inputValue);
    });

})
```

HTML CODE

```html
<!doctype html>
<html>
  <head>
    <title>Lab 4: Task 1</title>
    <meta charset="utf-8">
    <script
      src="https://code.jquery.com/jquery-3.1.1.js"
      integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
      crossorigin="anonymous"></script>
    <link rel="stylesheet" href=
      "https://cdnjs.cloudflare.com/ajax/libs/mini.css/2.0.2/mini-default.css">
    <style>
      body { margin: 20px; }
      #color_change { border: 1px solid; }
      .cow_color { font-weight: bold; }
    </style>
    <script src="index.js"></script>
    </script>

  </head>
  <body>

    <h2><span class="cow_color">Blue</span> Cow by Gelett Burgess
      (published in The Lark, 1895)</h2>
    <p>I never saw a <span class="cow_color">Blue</span> Cow,
      I never hope to see one;
      But I can tell you, anyhow,
      I'd rather see than be one.
    </p>
    <p>Change the cow's color to:
      <input id="input_color" value="Purple"></input>
      <button id="button_change">
        Change!
      </button>
    </p>

  </body>
</html>
```

OUTPUT

Blue Cow by Gelett Burgess (published in The Lark, 1895)

I never saw a **Blue** Cow, I never hope to see one; But I can tell you, anyhow, I'd rather see than be one.

Change the cow's color to: | Blue | Change!

Meat Cow by Gelett Burgess (published in The Lark, 1895)

I never saw a **Meat** Cow, I never hope to see one; But I can tell you, anyhow, I'd rather see than be one.

Change the cow's color to: | Meat | Change!

TASK 2

```javascript
var colorTeal = "rgb(57, 204, 204)";
$(function(){

    $("#button_toggle_colors").click(function() {
        /* Step 2 */

        $(".box").each(function() {
            if ($(this).css("background-color") == colorTeal) {
                $(this).css("background-color", "");
            } else {
                $(this).css("background-color", colorTeal);
            }
        });
    });

    $("#button_toggle_roundedges").click(function() {
        /Step 3/
        $(".box").each(function() {
            // if ($(this).hasClass("round-edge")) {
            //     $(this).removeClass("round-edge");
            // } else {
            //     $(this).addClass("round-edge");
            // }
            $(this).toggleClass("round-edge");
        });
    });

    $("#button_add_box").click(function() {
        /*Step 4 */
        var new_box = document.createElement("div");
        var boxCount = $(".box").length;
        var new_id = boxCount + 1;
        $(new_box).attr("id", "box" + new_id);
        $(new_box).addClass("box");
        $(new_box).addClass("outlined");
        $("#boxes").append(new_box);
    });

})
```

HTML CODE

```html
<!doctype html>
<html>
  <head>
    <title>Lab 4: Task 2</title>
    <meta charset="utf-8">
    <link rel="stylesheet" href=
      "https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
    <style>
      #boxes { margin-top: 50px; float: left; width: 100%; }
      #toggles { float: left; width: 100%; margin-top: 10px; }
      #info { float: left; margin-top: 5px; }
      .box { width: 50px; height: 50px; float: left; }
      .outlined { border: 2px solid □black; }
      .round-edge { border-radius: 15px; }
      .teal { background-color: ■teal; }
    </style>
    <script
      src="https://code.jquery.com/jquery-3.1.1.js"
      integrity="sha256-16cdPddA6VdVInumRGo6IbivbERE8p7CQR3HzTBuELA="
      crossorigin="anonymous"></script>

    <script src="index.js">

    var colorTeal = "rgb(57, 204, 204)";

    </script>
  </head>
  <body>
    <div class="container">
```

```html
<div id="boxes">
  <!-- Step 1: Add the 'outlined' class to each of the boxes -->
  <div id="box1" class="box outlined"></div>
  <div id="box2" class="box outlined"></div>
  <div id="box3" class="box outlined"></div>
</div>

<div id="toggles">
  <h2>Toggles</h2>
  <button class="btn" id="button_toggle_colors"
    >Toggle Colors</button>
  <button class="btn" id="button_toggle_roundedges"
    >Toggle Rounded Borders</button>
  <button class="btn" id="button_add_box"
    >Add a New Box</button>
</div>

<div id="info">
  <h2>Descriptions:</h2>
  <ul>
    <li><b>Toggle Colors</b>: Toggles the color on and off for each
      box using CSS classes.</li>
    <li><b>Toggle Rounded Borders</b>: Toggles the color on and off
      for each box using CSS attributes.</li>
    <li><b>Add a New Box</b>: Adds one new box to the container.</li>
  </ul>
</div>

</div>
</body>
</html>
```
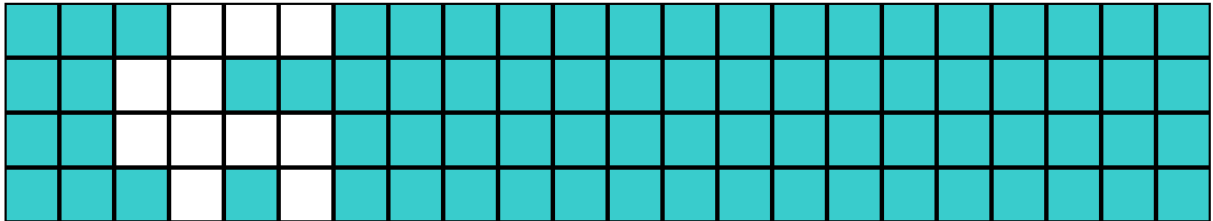
OUTPUT

Toggles

Toggle Colors   Toggle Rounded Borders   Add a New Box

Descriptions:

- **Toggle Colors**: Toggles the color on and off for each box using CSS classes.
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- **Add a New Box**: Adds one new box to the container.

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