



UNIVERSITI MALAYSIA TERENGGANU

Faculty of Computer Sciences and Mathematics

Front-End Programming

CSM3103

Lab Report 5

Prepared for:

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Bachelor of Computer Science (Mobile Computing) with Honors

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Task 1

a. Question:

- i. id of button = #button_change, id of input field = input_color
- ii. Nothing happened because the function was not defined yet

b. Codes:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Lab 4 : Task 1</title>
  <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>
    $(document).ready(function() {
      // Setting a click listener for button
      $('#button_change').click(function() {

        // Select the input value
        var input_value = $('#input_color').val();

        // Change the selected text color to input value color
        $('.door_color').html(input_value);

        // Change the color of all appropriate text to
selected color
        $('body').css('color', input_value);
      });
    </script>
```

```

</head>
<body>

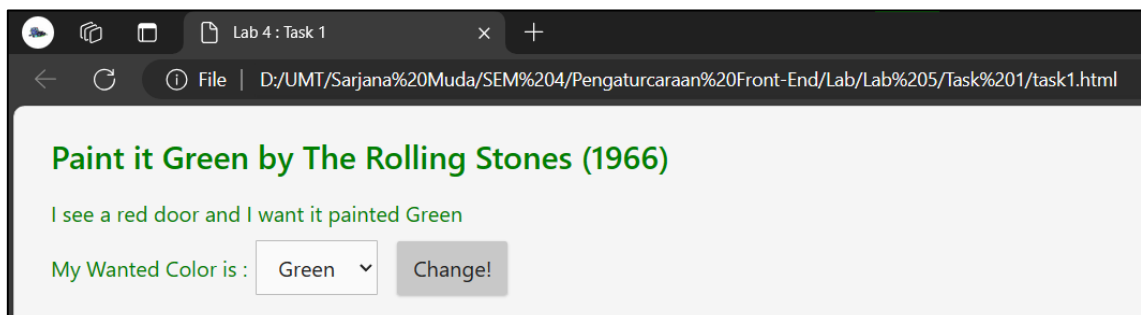
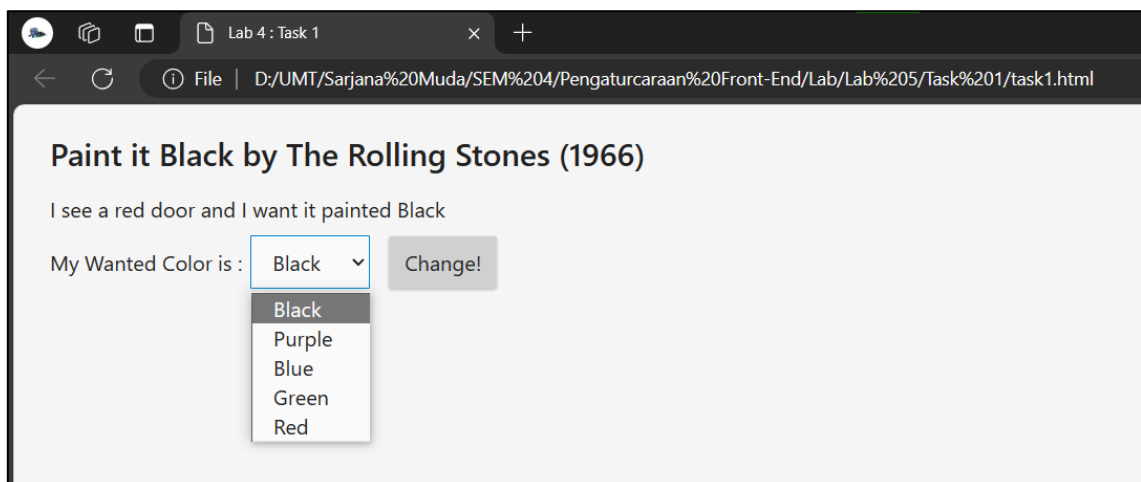
    <h2> Paint it <span class="door_color">Black</span> by The Rolling
    Stones (1966)</h2>
    <p>
        I see a red door and I want it painted <span
        class="door_color">Black</span>
    </p>

    <p>
        My Wanted Color is :
        <select id="input_color">
            <option value="Black">Black</option>
            <option value="Purple">Purple</option>
            <option value="Blue">Blue</option>
            <option value="Green">Green</option>
            <option value="Red">Red</option>
        </select>
        <button id="button_change">Change!</button>
    </p>

</body>
</html>

```

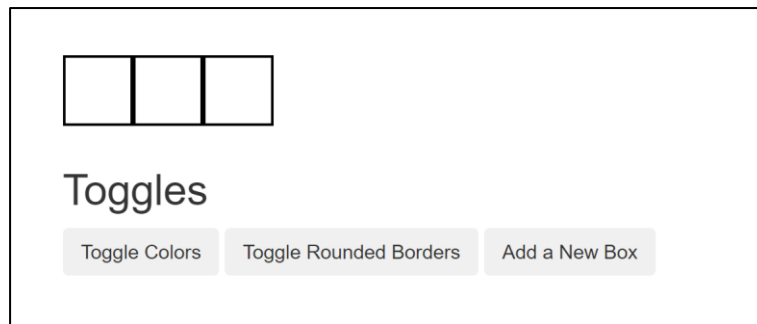
c. Output:



Task 2

a. Question:

- i. #boxes, #box1, #box2, #box3, #toggles, #button_toggle_colors, #button_toggle_roundedges, #button_add_box



- ii.
- iii. Nothing happened because the function was not defined yet

b. Codes:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Lab 4 : Task 2</title>
  <link
    rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.mi
n.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>
    var colorTeal = "rgb(57, 204, 204)";

    $(document).ready(function(){

        // Add button_toggle_colors click function
        $('#button_toggle_colors').click(function() {
            // Get box1
            var box1 = $('#box1');

            // Check and change background color of box1
            if ($(box1).css('background-color') == colorTeal) {
                // Remove the color
                $(box1).css('background-color', '');
            }
            else {
                // Put back colorTeal as background
                $(box1).css('background-color', colorTeal);
            }
        });

        // Add button_toggle_roundedges click function
        $('#button_toggle_roundedges').click(function() {
            $('.box').each(function() {
                if ($(this).hasClass('round-edge')){
                    $(this).removeClass('round-edge');
                }
                else {
                    $(this).addClass('round-edge');
                }
            })
        });

        // Add button_add_box click function
        $('#button_add_box').click(function() {
            // Create new element using javascript

```

```

        var new_box = document.createElement('div');

        // Get current number of element with class .box
        var existingBoxes = $('.box').length;

        // With the current number of box create new id for
new box
        var nextBoxId = existingBoxes + 1;
        $(new_box).attr('id', 'box' + nextBoxId);

        // Add two classes (box and outlined) to new_box
        $(new_box).addClass('box');
        $(new_box).addClass('outlined');

        // Finally, attached new box into box container
        $('#boxes').append(new_box);
    });

state
    var isShowingRandomBox = false; // Flag to track current

    // Add button_show_random_box click function
    $('#button_show_random_box').click(function() {
        var boxes = $('.box');

        if (isShowingRandomBox) {
            // Remove outlined class from all boxes
            boxes.addClass('outlined');
            isShowingRandomBox = false;
        } else {
            // Remove outlined class from all boxes
            boxes.removeClass('outlined');

            // Add outlined class to a random box
            var randomIndex = Math.floor(Math.random() *
boxes.length);

            boxes.eq(randomIndex).addClass('outlined');
            isShowingRandomBox = true;
        }
    });
</script>
</head>
<body>

    <div class="container">

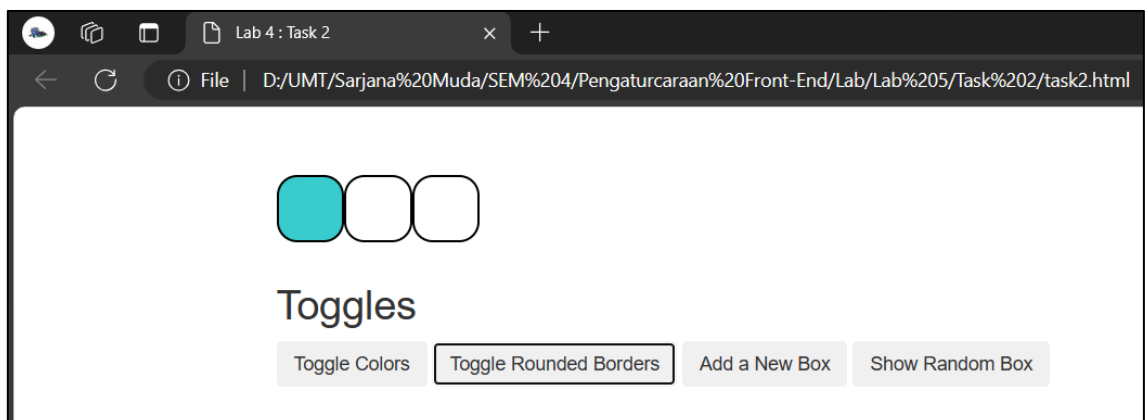
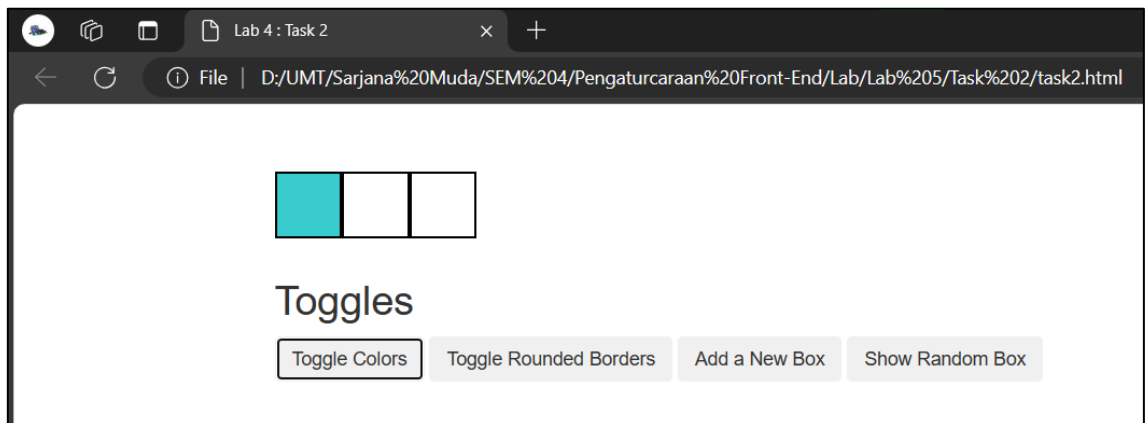
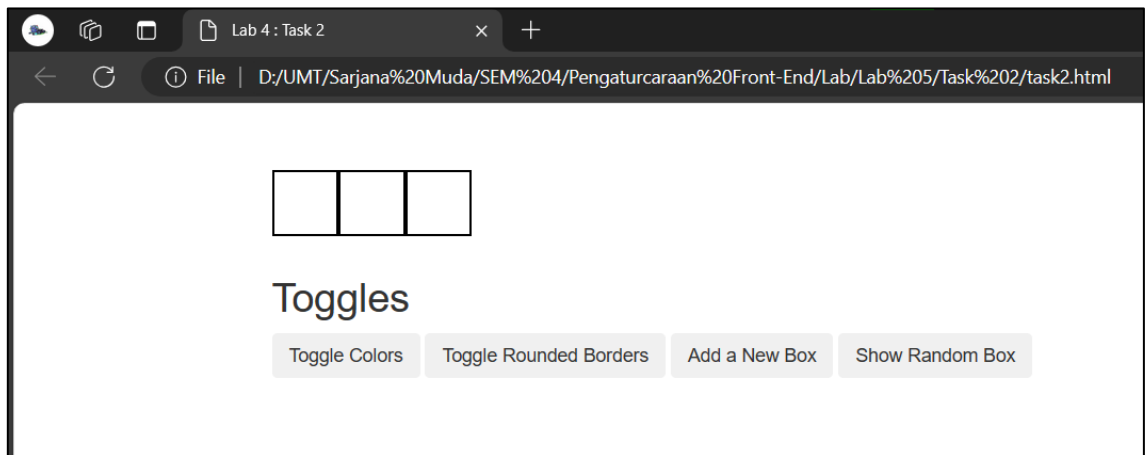
        <div id="boxes">
            <div id="box1" class="box outlined"></div>
            <div id="box2" class="box outlined"></div>
            <div id="box3" class="box outlined"></div>
        </div>

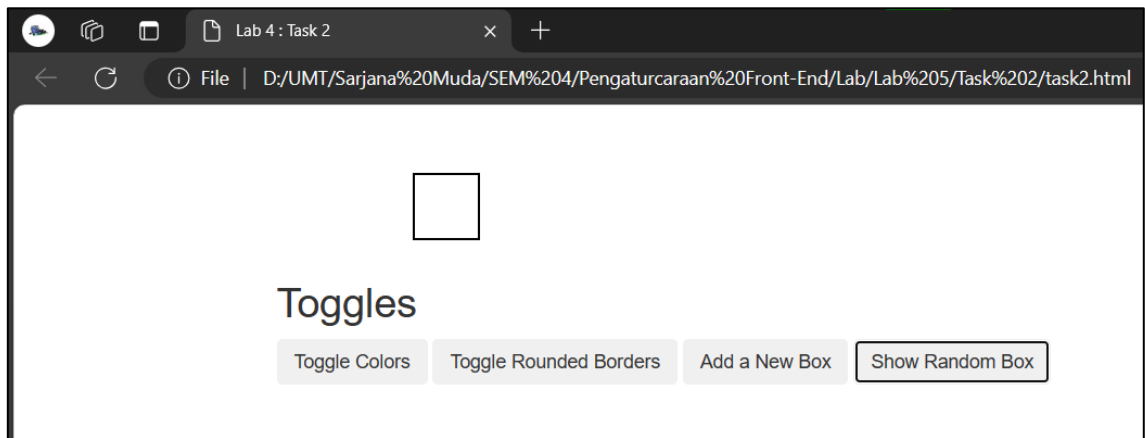
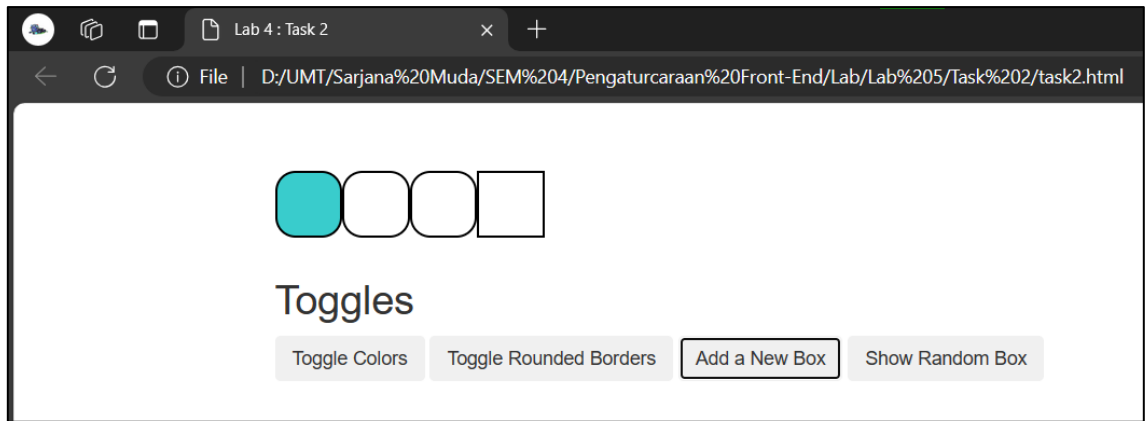
        <div id="toggles">
            <h2>Toggles</h2>
            <button class="btn" id="button_toggle_colors">Toggle
Colors</button>
            <button class="btn" id="button_toggle_roundedges">Toggle
Rounded Borders</button>

```

```
        <button class="btn" id="button_add_box">Add a New  
Box</button>  
        <button class="btn" id="button_show_random_box">Show  
Random Box</button>  
    </div>  
  
</div>  
  
</body>  
</html>
```

c. Output:





Task 3

a. Question:

- i. div = #name_input, #date_input, #year_input, #color_input, input:text = #name, #date, #red, #blue, #hot_pink, #mustard, #dark_green, input:radio = #ugrad, #grad
- ii. textfield and radio button

b. Codes:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Lab 4 : Task 3</title>
  <script
    src="https://code.jquery.com/jquery-3.1.1.js"
    integrity="sha256-
16cdPddA6VdVINumRGo6IbivbERE8p7CQR3HzTBuELA="
    crossorigin="anonymous">
  </script>
  <script
    src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"
    integrity="sha256-
T0Vest3yCU7pafRw9r+settMBX6JkKN06dqBnpQ8d30="
    crossorigin="anonymous">
  </script>
  <link
    rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize
.css">
  <link
    rel="stylesheet"
    href="https://code.jquery.com/ui/1.12.1/themes/ui-
lightness/jquery-ui.css">
  <style>
    body {
      margin: 20px;
    }

    #name_input {
      float: left;
      margin-bottom: 20px;
      margin-right: 20px;
    }

    #date_input {
      float: left;
      margin-bottom: 20px;
    }
  </style>
</head>
<body>
  <div id="name_input">
    <input type="text" value="Name" />
  </div>
  <div id="date_input">
    <input type="text" value="Date" />
  </div>
  <div id="year_input">
    <input type="text" value="Year" />
  </div>
  <div id="color_input">
    <input type="text" value="Color" />
  </div>
  <div id="ugrad">
    <input type="radio" /> Undergraduate
  </div>
  <div id="grad">
    <input type="radio" /> Graduate
  </div>
</body>
</html>
```

```

#year_input {
    clear:both;
}

.rank_color {
    width: 20px;
    margin-top: 2px;
}

/* Step 2: Your CSS code goes here */
#selectable .ui-selecting {
    background: #fec440;
}

#selectable .ui-selected {
    background: #f39814;
    color: white;
}

#selectable li::before {
    content: "\2713";
    color: transparent;
}

#selectable li.ui-selecting:before {
    content: "\2713";
    color: black;
}

#selectable li.ui-selected:before {
    content: "\2713";
    color: white;
}

#selectable {
    list-style-type: none;
    margin: 0;
    padding: 0;
    width: 150px;
    cursor: pointer;
}

#selectable li {
    margin: 3px;
    padding: 0.4em;
    font-size: 1em;
    height: 16px;
}

/* Step 3: Your CSS code goes here */
#sortable {
    list-style-type: none;
    margin: 0;
    padding: 0;
    width: 150px;
}

#sortable li {

```

```

        margin: 0 3px 3px 3px;
        padding: 0.4em;
        padding-left: 1.5em;
        font-size: 1em;
        height: 12px;
    }

    /* Step 4: Your CSS code goes here */
    .color_swatch {
        height: 50px;
        width: 50px;
    }
</style>
<script>
    $(document).ready(function() {

        /* Step 1: Inserting the datepicker into a form */
        $('#date').datepicker({
            dateFormat: 'dd-mm-yy',
            minDate: '-2w',
            maxDate: '+2w'
        });

        /* Step 2: Using selectable for enrolment type */
        $('#selectable').selectable();

        /* Step 3: Using sortable for the color input */
        $('#sortable').sortable();
        $('#sortable').disableSelection();

        /* Step 4: Adding a Tooltip */
        $(document).tooltip({
            items: '[title], [class]',
            position: { my: 'left center', at: 'right center' },
            content: function() {
                var element = $(this);
                if (element.is('[title]')) {
                    return element.attr('title');
                }
                if (element.is('[class]')) {
                    console.log('class', element);
                    if (element.hasClass('ui-state-default')) {
                        var text = element.text();
                        return '<div class="color_swatch"
style="background:' + text + '"></div>'
                    }
                }
            }
        });
    });
</script>
</head>
<body>

    <h2>jQuery UI-Survey</h2>
    <h3>General Information</h3>
    <div id="name_input">

```

```

        <label for="name">Name:</label>
        <input type="text" id="name">
    </div>
    <div id="date_input">
        <label for="date">Date:</label>
        <input type="text" id="date">
    </div>
    <div id="year_input">
        <h3>Are you enrolled as an undergraduate or a graduate?</h3>

        <!-- Comment out this part of the form after Step 2 -->
        <!--
            <input type="radio" name="enroll_year" id="ugrad"
value="ugrad">
            <label for="ugrad">Undergraduate (taking
6.813)</label><br>
            <input type="radio" name="enroll_year" id="grad"
value="grad">
            <label for="grad">Graduate (taking 6.831)</label>
        -->

        <!-- Step 2: Your HTML here -->
        <ol id="selectable">
            <li class="ui-widget-content" title="taking
6.813">Undergraduate</li>
            <li class="ui-widget-content" title="taking
6.813">Graduate</li>
        </ol>
    </div>

    <div id="color_input">
        <!-- Comment out instruction when you finish step 3 -->
        <!--
            <h3>
                Rank the colors listed from your most favorite (1)
                to your least favorite (5). Be sure to only use each
ranking once.
            </h3>
        -->

        <!-- Comment this part of the form out after step 3 -->
        <!--
            <input type="text" class="rank_color" id="red">
            <label for="red">#ff0000</label><br>
            <input type="text" class="rank_color" id="blue">
            <label for="blue">#0000ff</label><br>
            <input type="text" class="rank_color" id="hot_pink">
            <label for="hot_pink">#ff00b3</label><br>
            <input type="text" class="rank_color" id="mustard">
            <label for="mustard">#ded447</label><br>
            <input type="text" class="rank_color" id="dark_green">
            <label for="dark_green">#125e18</label><br>
        -->

        <!-- Step 3: Your HTML here -->
        <!-- Uncomment instruction when you finish step 3 -->
        <h3>Rank the colors from your most favorite to your least
favorite:</h3>
        <ul id="sortable">

```

```

        <li class="ui-state-default"><span class="ui-icon ui-icon-
arrowthick-2-n-s"></span>#FF0000</li>
        <li class="ui-state-default"><span class="ui-icon ui-icon-
arrowthick-2-n-s"></span>#0000FF</li>
        <li class="ui-state-default"><span class="ui-icon ui-icon-
arrowthick-2-n-s"></span>#FF00B3</li>
        <li class="ui-state-default"><span class="ui-icon ui-icon-
arrowthick-2-n-s"></span>#DED447</li>
        <li class="ui-state-default"><span class="ui-icon ui-icon-
arrowthick-2-n-s"></span>#125E18</li>
    </ul>

</div>

</body>
</html>

```

c. Output:

jQuery UI-Survey

General Information

Name: Date:

Are you enrolled as an undergraduate

Rank the colors from your most favorite to least favorite

Lab 4 : Task 3

File | D:/UMT/Sarjana%20Muda/SEM%204/Pengaturcaraan%20Front-End/Lab/Lab%205/Task%203/task3.html

jQuery UI-Survey

General Information

Name: Date:

Are you enrolled as an undergraduate or a graduate?

☒ Undergraduate ☐ Graduate

taking 6.813

Rank the colors from your most favorite to your least favorite:

-
-
-
-
-

Lab 4 : Task 3

File | D:/UMT/Sarjana%20Muda/SEM%204/Pengaturcaraan%20Front-End/Lab/Lab%205/Task%203/task3.html

jQuery UI-Survey

General Information

Name: Date:

Are you enrolled as an undergraduate or a graduate?

☒ Undergraduate ☐ Graduate

Rank the colors from your most favorite to your least favorite:

-
-
-
-
-

Task 4

a. Question:

- i. #myCanvas, #draw_buttons, #button_draw_rotated_triangle,
#button_clear_canvas

b. Codes:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Lab 4 : Task 4</title>
  <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/tufte-
css/1.1/tufte.css">
  <style>
    body {
      margin: 20px;
    }

    #container {
      display: block;
    }

    #draw_buttons {
      float: left;
      width: 100%;
      margin-top: 10px;
    }
  </style>
  <script>
    $(document).ready(function() {

      /* Step 1: Your code goes here */
      var canvas = document.getElementById('myCanvas');
      var ctx = canvas.getContext('2d');

      // Setup the fillStyle, strokeStyle and lineWidth
      ctx.fillStyle = '#f00';
      ctx.strokeStyle = '#000';
      ctx.lineWidth = 3;

      $("#button_draw_triangle").click(function() {
        /* Your code goes here for Step 2 */
```

```

        ctxt.beginPath();
        ctxt.moveTo(60, 240);
        ctxt.lineTo(240, 240);
        ctxt.lineTo(150, 60);

        ctxt.closePath();
        ctxt.fill();
        ctxt.stroke();
    });

    $("#button_draw_rotated_triangle").click(function() {
        /* Your code goes here for Step 3*/
        // Set the new position of the new triangle at the
middle of previous triangle
        ctxt.translate(canvas.width / 2, canvas.height / 2);
        ctxt.rotate(Math.PI / 4);
        ctxt.beginPath();

        // Start drawing a new triangle using a new coordinate
        ctxt.moveTo(-90, 90);
        ctxt.lineTo(90, 90);
        ctxt.lineTo(0, -90);

        ctxt.closePath();
        ctxt.fill();
        ctxt.stroke();
    });

    $("#button_clear_canvas").click(function() {
        /* Your code goes here for Step 4 */
        ctxt.setTransform(1, 0, 0, 1, 0, 0);
        ctxt.clearRect(0, 0, canvas.width, canvas.height);
    });

    });
</script>
</head>
<body>

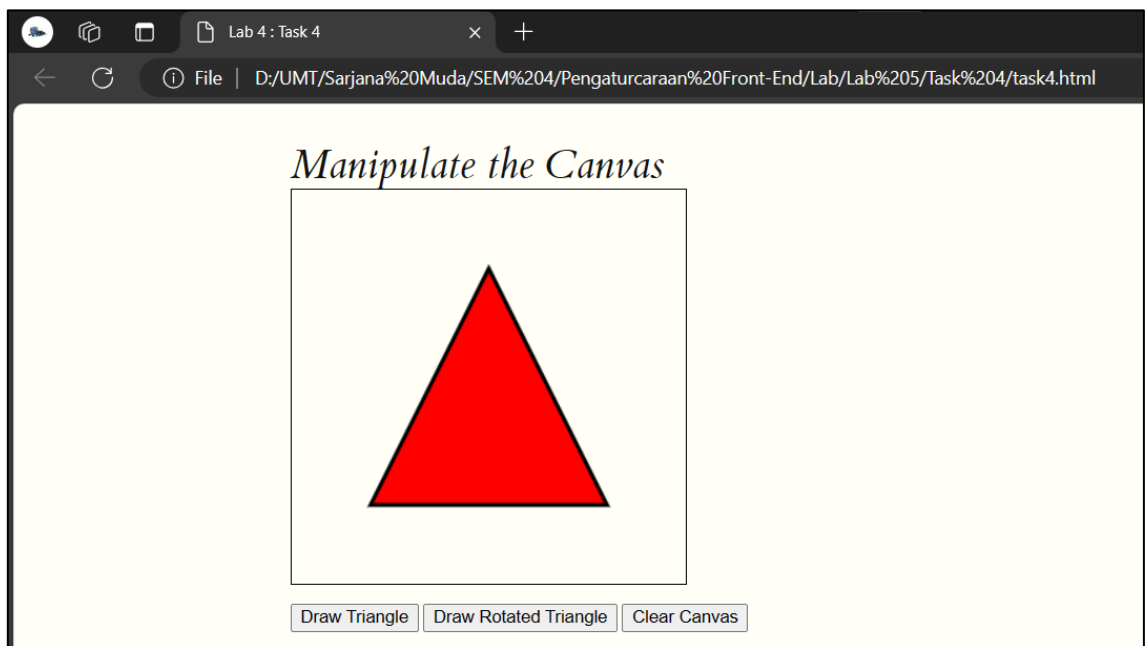
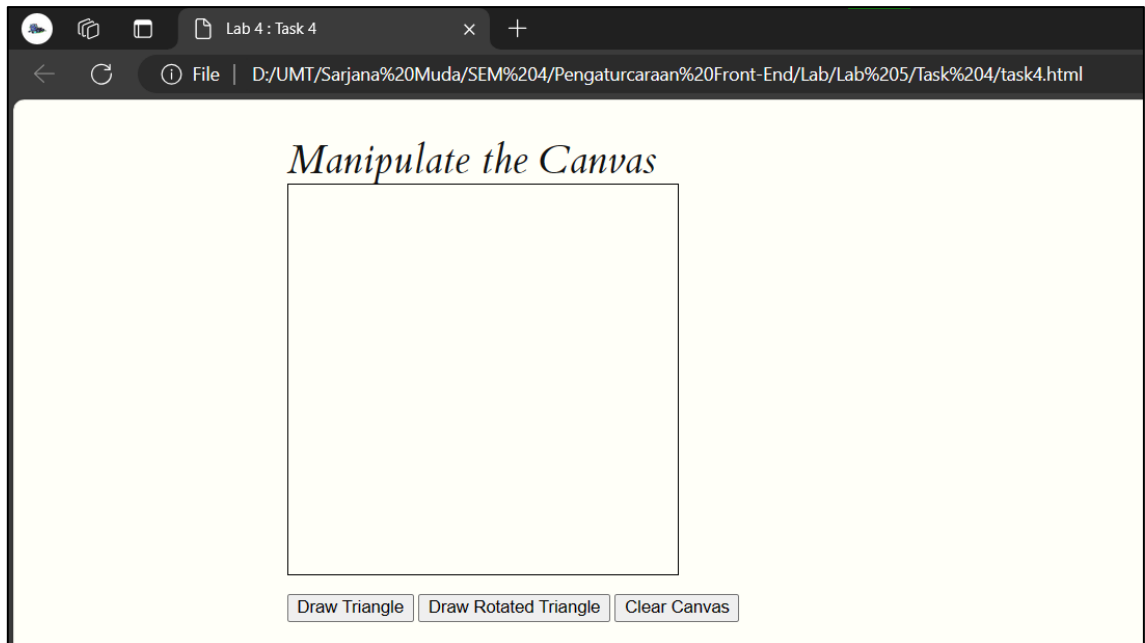
    <h2>Manipulate the Canvas</h2>
    <canvas id="myCanvas" width="300" height="300" style="border:1px
solid #000000;"></canvas>

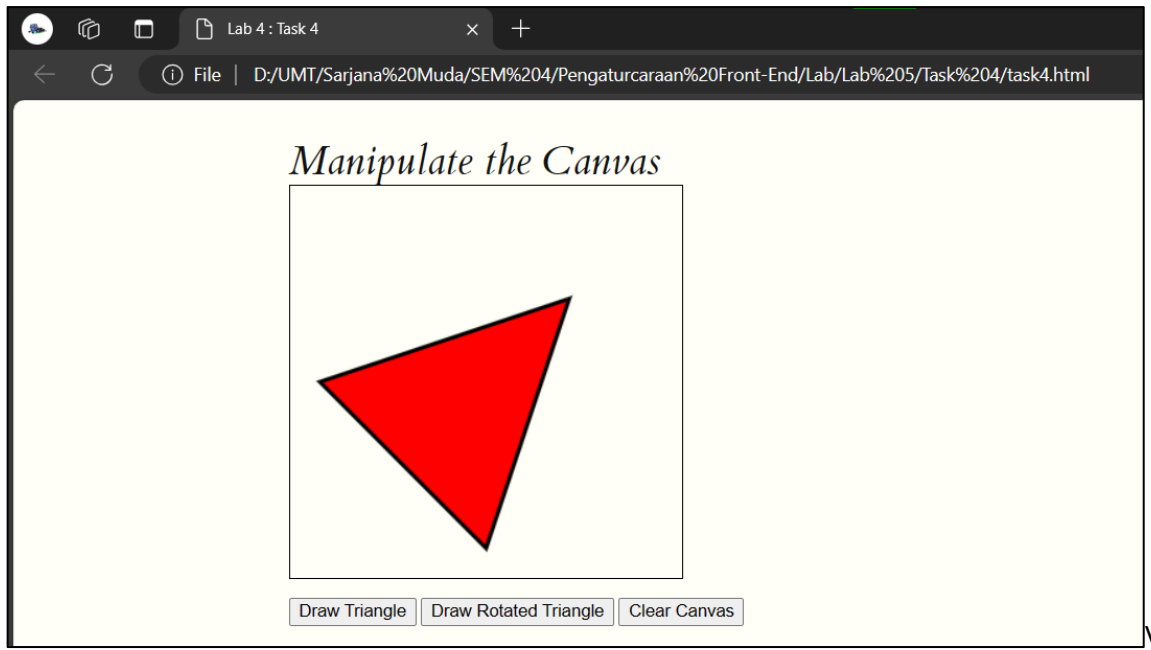
    <div id="draw_buttons">
        <button id="button_draw_triangle">Draw Triangle</button>
        <button id="button_draw_rotated_triangle">Draw Rotated
Triangle</button>
        <button id="button_clear_canvas">Clear Canvas</button>
    </div>

</body>
</html>

```

c. Output:





Link GitHub: <https://github.com/S65526AfifSyahmi/CSM3103-Lab-5>