



UNIVERSITI MALAYSIA TERENGGANU

CSM3103 -PENGATURCARAAN FRONT-END

**BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING)
WITH HONORS**

LAB 5

SEMESTER 2 2023/2024

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

Task 1:

a. Get the code from <https://frend.odaje.biz/lab5/task1.html>, and evaluate and test the code.

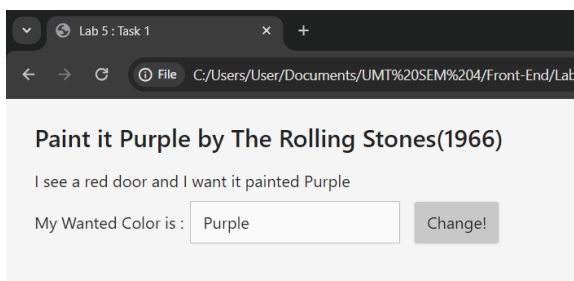
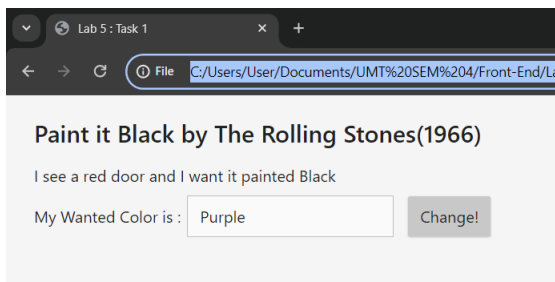
i. What is the id of button and input field

input_color ,button_change

ii. What happened when you clicked change button and why?

Nothing happen

Your mission: when the button is clicked, all occurrences of the word Black to be changed to the text in the input field.



```
<html>
  <head>
    <title>Lab 5 : 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>
$(document).ready(function() {

    var button = $('#button_change');
    $(button).click(function(){

        var input_color = $('#input_color');

        var input_value = $(input_color).val();

        var element = $('.door_color');

        $(element).html(input_value);

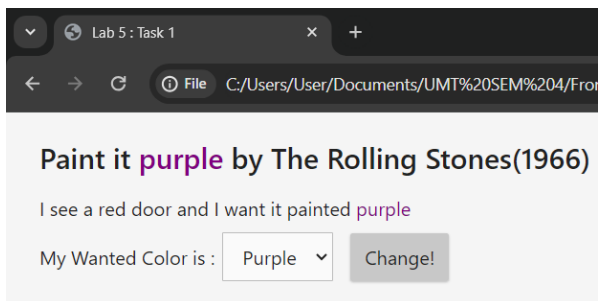
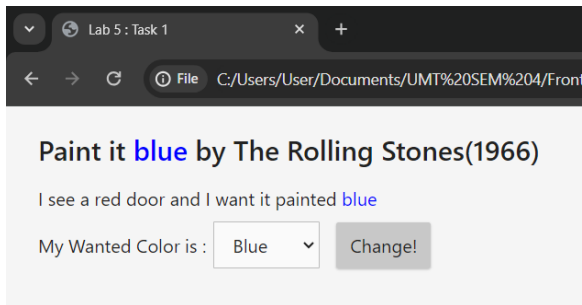
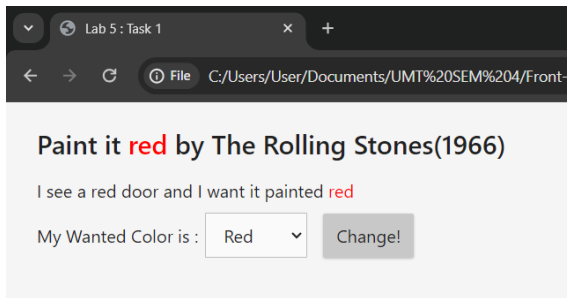
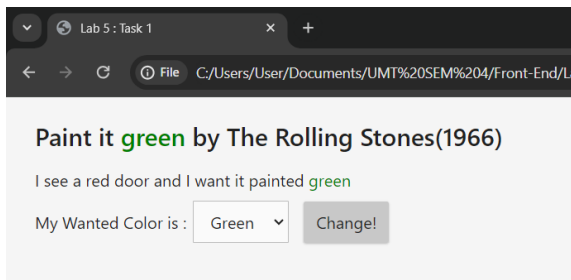
    });
});
</script>
</head>
<body>

    <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 :
    <input id="input_color" value="Purple"></input>
    <button id="button_change">
        Change!
    </button>
    </p>

</body>
</html>

```



```
<html>
  <head>
    <title>Lab 5 : 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>
$(document).ready(function() {

    $('#button_change').click(function(){

        var selectedColor = $('#select_color').val();

        $('#door_color').html(selectedColor);
        $('#door_color').css('color', selectedColor);

    });
});
</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 = "select_color">
            <option value = "black">Black</option>
            <option value = "red">Red</option>
            <option value = "green">Green</option>
            <option value = "blue">Blue</option>
            <option value = "purple">Purple</option>
        </select>
        <button id="button_change">
            Change!
        </button>
    </p>

</body>
</html>

```

Task 2:

a. Get the code from <https://frend.odaje.biz/lab5/task2.html>, and evaluate and test the code

i. What id's that exist in the code above?

Boxes, box1, box2, box3, button_toggle_colors, button_toggle_roundedges, button_add_box

ii. Open the file inside browser, what have you see in the browser?

When open the file inside a browser, there are three outlined boxes arranged horizontally, followed by three buttons labeled "Toggle Colors", "Toggle Rounded Borders", and "Add a New Box".

iii. Click any button, what happened? Why

When clicking toggle button, there is nothing happen because don't have javascript code.

```
<!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>

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

```

$(document).ready(function(){
var colorTeal = "rgb(57, 204, 204)";
var originalBackgroundColor = "";

$('#button_toggle_colors').click(function(){
    // Check the background color of the first box to determine the
current state
    var box1 = $('#box1');
    if (originalBackgroundColor === "") {
        // Save the original background color if it hasn't been saved yet
        originalBackgroundColor = $(box1).css('background-color');
    }

    // Toggle background color of all boxes
    $('.box').each(function(){
        if ($(this).css('background-color') === colorTeal) {
            $(this).css('background-color', originalBackgroundColor);
        } else {
            $(this).css('background-color', colorTeal);
        }
    });
});

$('#button_toggle_roundedges').click(function(){
    $(".box").toggleClass('round-edge');
});

$('#button_add_box').click(function(){
    // Create a new box and append it to the boxes container
    var newBox = $('<div class="box outlined"></div>');
    $('#boxes').append(newBox);
});
});

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

var existingBoxes = $(".box").length;

var nextBoxId = existingBoxes+1;
$(new_box).attr("id", "box"+nextBoxId);
$(new_box).addClass("box");
$(new_box).addClass("outlined");
$("#boxes").append(new_box);

</script>
</head>
<body>

```

```

<div class="container">

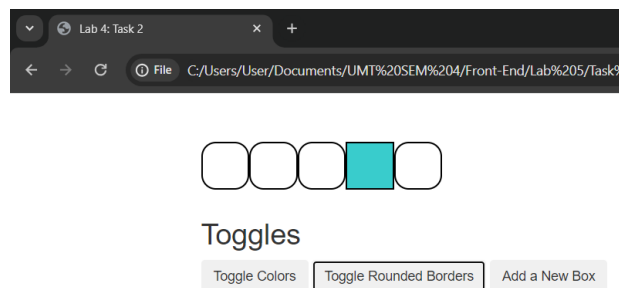
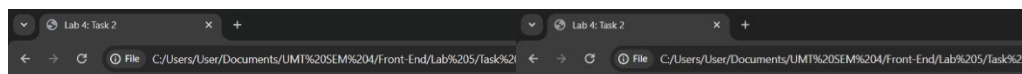
  <div id="boxes">

    <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>
  </div>

</div>
</body>
</html>

```



Modify the code above so that when button clicked, it only show one element which selected randomly

```
<!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>
      $(document).ready(function(){
        var colorTeal = "rgb(57, 204, 204)";
        var originalBackgroundColor = "";

        $('#button_toggle_colors').click(function(){
          // Check the background color of the first box to determine the
current state
          var box1 = $('#box1');
          if (originalBackgroundColor === "") {
            // Save the original background color if it hasn't been
saved yet
            originalBackgroundColor = $(box1).css('background-color');
          }

          // Toggle background color of all boxes
          $('.box').each(function(){
            if ($(this).css('background-color') === colorTeal) {
              $(this).css('background-color',
originalBackgroundColor);
            } else {
              $(this).css('background-color', colorTeal);
            }
          });
        });
      });
    </script>
  </head>
  <body>
    <div id="toggles">
      <div id="button_toggle_colors">
        <button>Toggle background color</button>
      </div>
    </div>
    <div id="boxes">
      <div id="box1"></div>
      <div id="box2"></div>
      <div id="box3"></div>
      <div id="box4"></div>
      <div id="box5"></div>
      <div id="box6"></div>
      <div id="box7"></div>
      <div id="box8"></div>
      <div id="box9"></div>
      <div id="box10"></div>
      <div id="box11"></div>
      <div id="box12"></div>
      <div id="box13"></div>
      <div id="box14"></div>
      <div id="box15"></div>
      <div id="box16"></div>
      <div id="box17"></div>
      <div id="box18"></div>
      <div id="box19"></div>
      <div id="box20"></div>
    </div>
    <div id="info">
      <div id="info_text">
        <div id="info_text1">
          <div id="info_text1_1"></div>
          <div id="info_text1_2"></div>
          <div id="info_text1_3"></div>
          <div id="info_text1_4"></div>
          <div id="info_text1_5"></div>
          <div id="info_text1_6"></div>
          <div id="info_text1_7"></div>
          <div id="info_text1_8"></div>
          <div id="info_text1_9"></div>
          <div id="info_text1_10"></div>
          <div id="info_text1_11"></div>
          <div id="info_text1_12"></div>
          <div id="info_text1_13"></div>
          <div id="info_text1_14"></div>
          <div id="info_text1_15"></div>
          <div id="info_text1_16"></div>
          <div id="info_text1_17"></div>
          <div id="info_text1_18"></div>
          <div id="info_text1_19"></div>
          <div id="info_text1_20"></div>
        </div>
        <div id="info_text2">
          <div id="info_text2_1"></div>
          <div id="info_text2_2"></div>
          <div id="info_text2_3"></div>
          <div id="info_text2_4"></div>
          <div id="info_text2_5"></div>
          <div id="info_text2_6"></div>
          <div id="info_text2_7"></div>
          <div id="info_text2_8"></div>
          <div id="info_text2_9"></div>
          <div id="info_text2_10"></div>
          <div id="info_text2_11"></div>
          <div id="info_text2_12"></div>
          <div id="info_text2_13"></div>
          <div id="info_text2_14"></div>
          <div id="info_text2_15"></div>
          <div id="info_text2_16"></div>
          <div id="info_text2_17"></div>
          <div id="info_text2_18"></div>
          <div id="info_text2_19"></div>
          <div id="info_text2_20"></div>
        </div>
      </div>
    </div>
  </body>
</html>
```

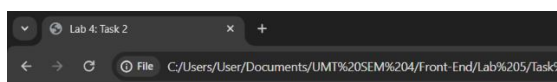
```

    $('#button_toggle_roundedges').click(function(){
        $(".box").toggleClass('round-edge');
    });

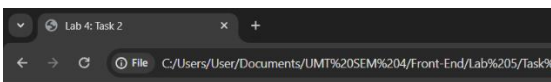
    $('#button_add_box').click(function(){
        // Hide all existing boxes
        $(".box").hide();
        // Randomly select one box to show
        var randomBoxIndex = Math.floor(Math.random() *
$(".box").length);
        $(".box").eq(randomBoxIndex).show();
    });
});
</script>
</head>
<body>
    <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>
        </div>
    </div>
</body>
</html>

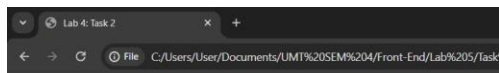
```



Toggles



Toggles



Toggles

Toggle Colors

Toggle Rounded Borders

Add a New Box

Task 3 :

- a. Get the code <https://frend.odaje.biz/lab5/task3.html>, and evaluate and test the code:
 - i. Determine the id's of each element
name input, date input, year input, ugrad, grad, color input
 - ii. Recognise any input element that associated with the form :
Name input: <input type="text" id="name">
Date input: <input type="text" id="date">
Radio buttons for enrollment: <input type="radio"
name="enroll_year" id="ugrad" value="ugrad"> and <input
type="radio" name="enroll_year" id="grad" value="grad">
Text inputs for color ranking: <input type="text" class="rank_color"
id="red">, <input type="text" class="rank_color" id="blue">, <input
type="text" class="rank_color" id="hot_pink">, <input type="text"
class="rank_color" id="mustard">, <input type="text"
class="rank_color" id="dark_green">
 - iii. Your Task are:
 1. Add DatePicker
 2. Use selectable interaction
 3. Use Sortable widget
 4. Use the tooltip

```
<!doctype html>
<html>
  <head>
    <title>Lab 2: Exercise 3</title>
    <meta charset="utf-8">
    <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;
  }
  #year_input {
    clear:both;
  }
  .rank_color {
    width: 20px;
    margin-top: 2px;
  }
  #selectable .ui-selecting{
    background: #FECA40;
  }
  #selectable .ui-selecting{
    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: 3px;
    cursor: pointer;
```

```

    }
    #selectable li{
        margin: 3px;
        padding: 0.4em;
        font-size: 1.0em;
        height: 16px;
    }
    #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: 1.0em;
        height: 12px;
    }
}

</style>

<script>
$(document).ready(function() {

$('#date').datepicker();

$("#selectable").selectable();

$("#sortable").sortable();
$("#sortable").disableSelection();

$(document).tooltip({
    item: '[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_switch" style="background:' + text
+ "'></div>'
            }
        }
    }
});

```



```

<input type="text" class="rank_color" id="dark_green">
<label for="dark_green">#125e18</label><br/>

<!-- Step 3: Your HTML here -->
<span class="ui-icon ui-icon-arrowthick-2-n-s"></span>

<ul id = "sortable">
  <li class = "ui-state-default">#ff0000</li>
  <li class = "ui-state-default">#0000ff</li>
  <li class = "ui-state-default">#ff00b3</li>
  <li class = "ui-state-default">#ded447</li>
  <li class = "ui-state-default">#125e18</li>

</ul>
<!-- Uncomment instruction when you finish step 3 -->
<!--
  <h3>Rank the colors from your most favorite to your least
favorite:</h3>
-->
</div>

</body>
</html>

```

Lab 2: Exercise 3

File
C:/Users/User/Documents/UMT%20SEM%204/Front-End/Lab%205/Task%203.html

jQuery UI-Survey

General Information

Name: Date:

Are you enrolled as an undergraduate or a graduate?

☐ Undergraduate (taking 6.813)
☒ Graduate (taking 6.831)
☐ Graduate

Rank the colors listed from your most favorite (1) to your least favorite (5). Be sure to only use each ranking once.

<input type="text"/>	#ff0000
<input type="text"/>	#0000ff
<input type="text"/>	#ff00b3
<input type="text"/>	#ded447
<input type="text"/>	#125e18

↑

<input type="text"/>	#ff0000
<input type="text"/>	#0000ff
<input type="text"/>	#ff00b3
<input type="text"/>	#ded447
<input type="text"/>	#125e18

Task 4 :

Drawing a triangle to canvas

```
<!doctype html>
<html>
  <head>
    <title>Lab 2: Exercise 3</title>
    <meta charset="utf-8">
    <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; }
      #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 ctxt = canvas.getContext('2d');

      /* Step 2: Your js code goes here */
      $("#button_draw_triangle").click(function() {
        ctxt.fillStyle = '#f00';
        ctxt.strokeStyle = '#000';
        ctxt.lineWidth = 3;

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



```

        ctxt.stroke();
    });
    /* Step 3: Your js code goes here */
    $("#button_draw_rotated_triangle").click(function() {
        ctxt.translate(canvas.width / 2, canvas.height / 2);
        ctxt.rotate(Math.PI / 4);
        ctxt.beginPath();

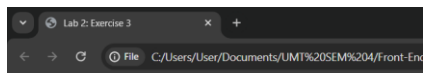
        ctxt.moveTo(-90, 90);
        ctxt.lineTo(90, 90);
        ctxt.lineTo(0, -90);

        ctxt.closePath();
        ctxt.fill();
        ctxt.stroke();
    });
    /* Step 4: Your js code goes here */
    $("#button_clear_canvas").click(function() {
        /* Clear canvas and reset transformations */
        ctxt.clearRect(0, 0, canvas.width, canvas.height);
        ctxt.setTransform(1, 0, 0, 1, 0, 0); // Reset transformation matrix
    });
});
</script>
</head>
<body>
    <h2>Manipulate the Canvas</h2>
    <canvas id="myCanvas"
        width="300" height="300"
        style="border:1px solid #000000;"></canvas>

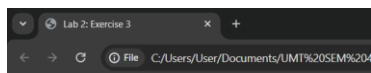
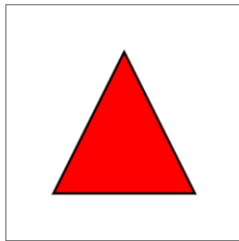
    <div id="draw_buttons">
        <button id="button_draw_triangle">Draw Triangle</button>
        <button id="button_draw_rotated_triangle">Draw Rotated Triangle</button>
        <button id="button_clear_canvas">Clear Canvas</button>
    </div>

</body>
</html>

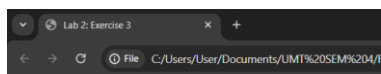
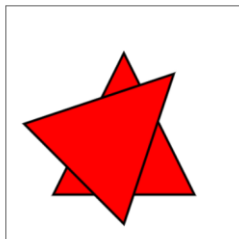
```



Manipulate the Canvas



Manipulate the Canvas



Manipulate the Canvas

