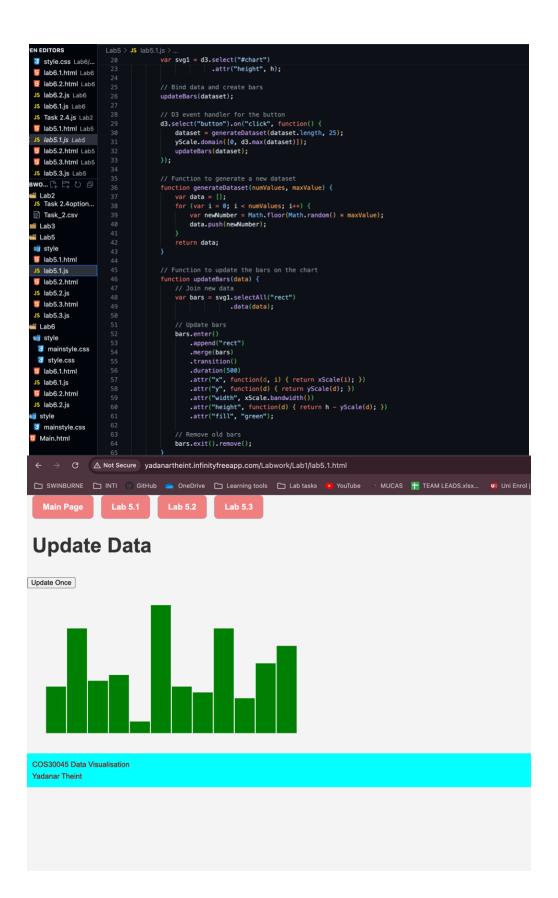
Name – Yadanar Theint Student ID – 104992813

GitHub - https://github.com/Treasure-Mei-box/COS30045/tree/main

Hosting Website - http://yadanartheint.infinityfreeapp.com/Labwork/Lab1/Main.html

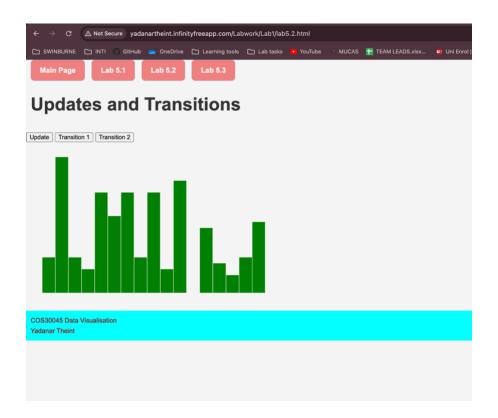
Lab 5.1

```
■ lab5.1.html > ← since | lab5.1.html | → since | lab
            style.css Lab6/...
                                                                                                                                                                                                      <html lang="en">
                ■ lab6.1.html Lab6
              lab6.2.html Lab6
                JS lab6.2.js Lab6
                                                                                                                                                                                                                <meta charset="UTF-8"/>
<meta name="description" content="Data Visualisation"/>
                JS lab6.1.js Lab6
                                                                                                                                                                                                                           <meta name="keywords" content="HTML, CSS, D3"/>
<meta name="Mr.Mohamad Faizal Alias" content="Yadanar Theint"/>
                JS Task 2.4.js Lab2
              ab5.1.html Lab5
              lab5.2.html Lab5
                                                                                                                                                                                                                       <title>Lab 5.1 D3 Update </title>
              ab5.3.html Lab5
                                                                                                                                                                                                                           <!-- Insert description of exercise -->
<script src="https://d3js.org/d3.v7.min.js"></script>
< rel="stylesheet" href="style/style.css">
<a href="Main.html" class="button1">Main Page</a>
<a href="lab5.1.html" class="button1">Lab 5.1</a>
<a href="lab5.2.html" class="button2">Lab 5.2</a>
<a href="lab5.3.html" class="button3">Lab 5.3</a>
<a href="lab5.3.html" class="button3">Lab 5.3</a>
                                                                                                                                                                                             <hody>
<h1>Update Data</h1>
<hutonid="add">Update Once</button>
<hutonid="add">Update Once</button>
<|-- Add a div for the chart here -->
<div id="chart"></div>
                                                                                                                                                                                                                               <script src="lab5.1.js"></script>
                                                                                                                                                                                                                         <footer>
C0530045 Data Visualisation
<br/>
                       mainstyle.css
                     style.css
                                                                                                                                                                                                                       Yadanar Theint
</footer>
              lab6.1.html
                JS lab6.1.js
                lab6.2.html
                                                                                                                                                                                             </body>
                  JS lab6.2.js
              iii style
```



```
Lab5 > | lab5.2.html > | html > | body > | script
        OPEN EDITORS
                                             <html lang="en">
            style.css Lab6/...
            lab6.1.html Lab6
                                                 <meta charset="UTF-8"/>
            lab6.2.html Lab6
                                                  <meta name="description" content="Data Visualisation"/>
            JS lab6.2.js Lab6
                                                 <meta name="keywords" content="HTML, CSS, D3"/>
<meta name="Mr.Mohamad Faizal Alias" content="Yadanar Theint"/>
            JS lab6.1.js Lab6
            JS Task 2.4.js Lab2
            ab5.1.html Lab5
                                                  <title>Lab 5.2 D3 Transitions </title>
            JS lab5.1.js Lab5
                                                  <!-- Insert description of exercise --> 
<script src="https://d3js.org/d3.v7.min.js"></script>
         X 5 lab5.2.html Lab5
                                                 k rel="stylesheet" href="style/style.css">
            lab5.3.html Lab5
            JS lab5.3.is Lab5
@
        LABWORK
                                                 <nav >
                                                      <a href="Main.html" class="button1"-Main Page</a>
<a href="lab5.1.html" class="button1"-klab 5.1</a>
<a href="lab5.2.html" class="button2"-klab 5.2</a>
<a href="lab5.3.html" class="button3"-klab 5.3</a>
        ∨ ■ Lab2
JS Task 2.4option...
           Task_2.csv
        ≥ ■ Lab3
          Lab5
           style
                                            </head>
            lab5.1.html
            JS lab5.1.js
                                             lab5.2.html
            JS lab5.2.js
            lab5.3.html
                                                 <button id="add">Update</button>
<button id="remove">Transition 1</button>
            JS lab5.3.js
                                                 <button id="add">Transition 2</putton>
           style
                                                 <!-- Container for the SVG chart -
<div id="chart"></div>
             mainstyle.css
             style.css
            <script src="lab5.2.js"></script>
            JS lab6.1.is
            lab6.2.html
                                                 <footer>
                                                     COS30045 Data Visualisation
            JS lab6.2.js
                                                 <br/>
Yadanar Theint
          style
@
            mainstyle.css
                                                 </footer>
           Main.html
```

```
Lab5 > JS lab5.2.js > ...
48 .attr("fill", "green");
 DITORS
 lab6.1.html Lab6
 lab6.2.html Lab6
                                            // Update function
 lab6.2.js Lab6
                                             // Unction updateChart(newData, transitionType) {
   yScale.domain([0, d3.max(newData)]); // Update the yScale domain
   xScale.domain(d3.range(newData.length)); // Update the xScale domain
 lab6.1.js Lab6
 Task 2.4.is Lab2
 lab5.1.html Lab5
 lab5.1.is Lab5
                                                                               .data(newData):
 lab5.2.html Lab5
 lab5.3.html Lab5
                                            bars.enter()
                                            .append("rect")
 lab5.3.js Lab5
 lab5.2.js Lab5
                                           .transition()
duration(transitionType === 'transition1' ? 2000 : 1000)
.ease(transitionType === 'transition1' ? d3.easeCubicInOut : d3.easeElasticOut)
.delay(function(d, i) { return i / newOata.length * (transitionType === 'transition1' ? 100 : 50); })
.attr("y", function(d, j) { return xScale(s); })
.attr("y", function(d) { return h - yScale(d); })
.attr("height", function(d) { return yScale(d); })
.attr("height", function(d) { return yScale(d); })
.attr("fill", "green"); // Set the fill color to grey
 Lab2
 Task 2.4option...
 Task 2.csv
Lab3
Lab5
 style
 lab5.1.html
 lab5.1.js
 lab5.2.html
 lab5.2.js
 lab5.3.html
 lab5.3.js
                                            d3.select("#update").on("click", function() {
   var newData = generateDataset();
   updateChart(newData, 'update'); // Update the chart without transition
Lab6
 style
 mainstyle.css
style.css
                                            d3.select("#transition1").on("click", function() {
 lab6.1.html
                                                   var newData = generateDataset();
updateChart(newData, 'transition1'); // Update the chart with transition 1
 lab6.1.js
 lab6.2.html
 lab6.2.js
                                            d3.select("#transition2").on("click", function() {
 style
                                                   var newData = generateDataset();
updateChart(newData, 'transition2'); // Update the chart with transition 2
 mainstyle.css
Main.html
```



Lab 5.3

```
JS Task 2.4.js
                                                                                           lab5.1.html
                                  Lab5 > 
☐ lab5.3.html > 
☐ html > 
☐ body
        OPEN EDITORS
            3 ab6.1.html Lab6
                                          <head>
            ab6.2.html Lab6
                                               ad>

<meta name="description" content="Data Visualisation"/>

<meta name="keywords" content="HTML, CSS, D3"/>

<meta name="Mr.Mohamad Faizal Alias" content="Yadanar Theint"/>
            JS lab6.2.js Lab6
            JS lab6.1.js Lab6
           JS Task 2.4.js Lab2
                                               <title>Lab 5.2 D3 Transitions </title>
                                               <!-- Insert description of exercise -->
<script src="https://d3js.org/d3.v7.min.js"></script>
< rel="stylesheet" href="style/style.css">
           JS lab5.1.js Lab5
        × 5 lab5.3.html Lab5
           JS lab5.3.js Lab5
JS lab5.2.js Lab5
                                                LABWORK
        ✓ ■ Lab2

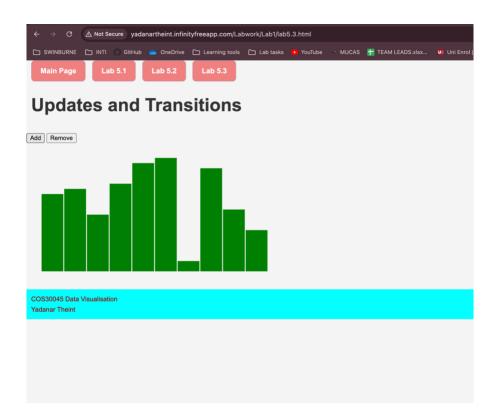
JS Task 2.4option...

Task_2.csv
                                         </nav>
-
        ∨ 📹 Lab5
          > 📭 style
                                          JS lab5.1.js
                                             <!-- Buttons for triggering different transitions --> <button id="add">Add</button>
           JS lab5.2.js
           ab5.3.html
                                              <button id="remove">Remove</button>
            JS lab5.3.js
                                              <!-- Container for the SVG chart --> <div id="chart"></div>
           style
             mainstyle.css
             style.css
            lab6.1.html
                                                  COS30045 Data Visualisation
            JS lab6.1.is
            lab6.2.html
                                               Yadanar Theint
           JS lab6.2.js
          style mainstyle.css
                                          </body>
```

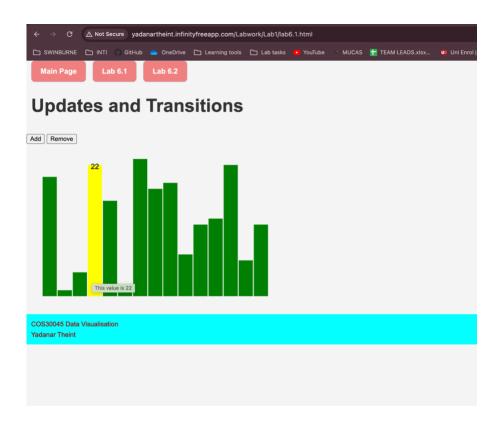
```
0
              OPEN EDITORS
                                                                   function updateChart() {
   yScale.domain(!0, d3.max(dataset)]);
   xScale.domain(d3.range(dataset.length));
                   lab6.1.html Lab6 lab6.2.html Lab6
                   JS lab6.2.js Lab6
                                                                          // Select all bars and bind the data
var bars = svg1.selectAll("rect")
                  JS Task 2.4.js Lab2
                                                                                                   .data(dataset);
                                                                          // Enter selection for new bars
bars.enter()
.append("rect")
.atr("fill", "green")
.merge(bars) // Merge enter and update selection
                   JS lab5.1.js Lab5
                   lab5.2.html Lab5
                   lab5.3.html Lab5
               × JS lab5.3.js Lab5
                    JS lab5.2.is Lab5
                                                                                 .transition()
                                                                               .transition()
.duration(500)
.attr("x", function(d, i) { return xScale(i); })
.attr("y", function(d) { return h - yScale(d); })
.attr("width", xScale.bandwidth())
.attr("height", function(d) { return yScale(d); })
.attr("fill", "green");
             LABWORK
             ✓ ■ Lab2

JS Task 2.4option...

Task_2.csv
                 ■ Lab3
 -
              ∨ ≝ Lab5
                                                                          // Exit selection for removing bars
bars.exit()
    transition()
    .duration(500)
    .attr(">", w)
                 style lab5.1.html
                    lab5.2.html
                   JS lab5.2.js
                    JS lab5.3.js
                                                                  // Event listener for the 'Add' button
d3.select("#add").on("click", function() {
    // Generate new number and add to the dataset
    var newNumber = Math.floor(Math.random() * maxValue);
    dataset.push(newNumber);
    updateChart(); // Update the chart
                  style
                    mainstyle.css
style.css
                   lab6.1.html
                    JS lab6.1.js
                                                       lab6.2.html
                   JS lab6.2.js
                 style
                   mainstyle.css
```







Lab 6.2

