



Fakultas Ilmu Komputer

Learning is the process of acquiring new understanding, knowledge, behaviors, skills, values, attitudes, and preferences.

JavaScript Table

(Insert, Update & Delete Rows)



Welcome to *the* Front-end Web Development *course*

HTML

<html>

<head id="html_head">

<title>website</title>

<script type="text/javascript">

pageNow = new Date();

</script>



Why figure is important?


The phrase a picture is worth a **thousand words** means a picture may convey an idea more quickly and effectively than the written **word**.


```
background-color: #f9f9f9;
text-shadow: 0px 1px 0px #f9f9f9;
filter: dropshadow(color=#f9f9f9,
color:#777;

}
header #main-navigation ul li span:hover {
box-shadow: 0px 0px 1px rgba(50, 50, 50, 0.3);
-webkit-box-shadow: 0px 0px 2px rgba(50, 50, 50, 0.3);
-moz-box-shadow: 0px 0px 1px rgba(50, 50, 50, 0.3);
background-color: #f9f9f9;
color: #444;
}
header #main-navigation ul li.active span {
color: #b90000;
}
header #main-navigation ul li span.dashboard {
background: #f5f5f5 url('../img/dashboard.png') center;
}
header #main-navigation ul li span.dashboard:hover {
background: #f9f9f9 url('../img/dashboard_hover.png') center;
}
header #main-navigation ul li.active span.dashboard {
background: #f9f9f9 url('../img/dashboard_active.png') center;
}
```

HTML TABLES

WHEN AND HOW
TO USE THEM



```
<table class="styled">
  <tr>
    <td>American Goldfinch</td>
    <td>yellow</td>
    <td>Mostly seeds.</td>
    <td>
```

Why html table is important?


```
26 .screen-reader-text
27 .screen-reader-text
28 .screen-reader-text
29 background-color
30 border-radius:
31 box-shadow: 0
32 clip: auto !in
33 color: #21759b
34 display: block
35 font-size: 14px
36 font-size: 0.8em
37 font-weight: bold
38 height: auto;
39 left: 5px;
40 line-height: normal
41 padding: 15px
42 text-decoration: none
43 top: 5px;
44 width: auto;
45 z-index: 10000
46 }
47
```

- ✓ Figures and tables (*display items*) are often the quickest way to communicate large amounts of complex information. Many readers will only look at your display items without reading the main text of your manuscript.
- ✓ A table in HTML **makes a lot of sense when you want to organize data that would look best in a spreadsheet.**
- ✓ An HTML table is a great way to display things such as financial data, calendars, pricing, feature comparison, the nutrition facts information panel, bowling scores, and many other tabular data.

A decorative border of green leaves and branches at the top of the slide.

1 - HTML Tables

A decorative border of green leaves and branches at the bottom of the slide.

HTML Table Tags

Tag	Description
<u><table></u>	Defines a table
<u><th></u>	Defines a header cell in a table
<u><tr></u>	Defines a row in a table
<u><td></u>	Defines a cell in a table
<u><caption></u>	Defines a table caption
<u><colgroup></u>	Specifies a group of one or more columns in a table for formatting
<u><col></u>	Specifies column properties for each column within a <colgroup> element
<u><thead></u>	Groups the header content in a table
<u><tbody></u>	Groups the body content in a table
<u><tfoot></u>	Groups the footer content in a table

- ❖ *th* stands for table header.
- ❖ *tr* stands for table row.
- ❖ *td* stands for table data.

Students guess ???

```
<!DOCTYPE html>
<html>
<style>
  table, th, td {
    border:1px solid black;
  }
</style>
<body>
  <h2>TH elements define table headers</h2>
  <table style="width:100%">

    <tr>
      <th>Person 1</th>
      <th>Person 2</th>
      <th>Person 3</th>
    </tr>

    <tr>
      <td>Emil</td>
      <td>Tobias</td>
      <td>Linus</td>
    </tr>

    <tr>
      <td>16</td>
      <td>14</td>
      <td>10</td>
    </tr>

  </table>
</body>
</html>
```

Tebak gambar di samping,
berapa banyak baris yang
akan tampilkan di
browser?

Correct answer !!!

TH elements define table headers

Person 1	Person 2	Person 3
Emil	Tobias	Linus
16	14	10

Students guess ???

```
<!DOCTYPE html>
<html>
<style>
  table, th, td {
    border:1px solid black;
  }
</style>
<body>
  <h2>TH elements define table headers</h2>
  <table style="width:100%">
    <tr>
      <th>Person 1</th>
      <th>Person 2</th>
    </tr>
    <tr>
      <td>Test1</td>
      <td>Test2</td>
    </tr>
    <tr>
      <td>Test11</td>
      <td>Test22</td>
    </tr>
    <tr>
      <td>Test111</td>
      <td>Test222</td>
    </tr>
    <tr>
      <td>Test1111</td>
      <td>Test2222</td>
    </tr>
  </table>
</body>
</html>
```

Tebak gambar di samping,
berapa banyak baris yang
akan tampilkan di
browser?

Correct answer !!!

TH elements define table headers

Person 1	Person 2
Test1	Test2
Test11	Test22
Test111	Test222
Test1111	Test2222

Students guess ???

```
<!DOCTYPE html>
<html>
<style>
  table, th, td {
    border:1px solid black;
  }
</style>
<body>
  <h2>TH elements define table headers</h2>
  <table style="width:100%">
    <tr>
      <th>Person 1</th>
      <th>Person 2</th>
      <th>Person 3</th>
      <th>Person 4</th>
    </tr>
    <tr>
      <td>Test1</td>
      <td>Test2</td>
      <td>Test3</td>
      <td>Test4</td>
    </tr>
    <tr>
      <td>Test11</td>
      <td>Test22</td>
      <td>Test33</td>
      <td>Test44</td>
    </tr>
  </table>
</body>
</html>
```

Tebak gambar di samping,
berapa banyak baris dan
kolom yang akan
tampilkan di browser?

Correct answer !!!

TH elements define table headers

Person 1	Person 2	Person 3	Person 4
Test1	Test2	Test3	Test4
Test11	Test22	Test33	Test44

HTML Table Borders

HTML tables can have borders of different styles and shapes.

To add a border, use the CSS `border` property on `table`, `th`, and `td` elements:

Example

```
table, th, td {  
  border: 1px solid black;  
}
```

[Try it Yourself »](#)

Style Table Borders

Round Table Borders

With the `border-radius` property, the borders get rounded corners:


```
table, th, td {  
  border: 1px solid black;  
  border-radius: 10px;  
}
```

Skip the border around the table by leaving out `table` from the css selector:


```
th, td {  
  border: 1px solid black;  
  border-radius: 10px;  
}
```

Border Color

With the `border-color` property, you can set the color of the border.


```
th, td {  
  border-color: #96D4D4;  
}
```


Align Table Headers

By default, table headers are bold and centered:

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94

To left-align the table headers, use the CSS `text-align` property:

```
th {  
    text-align: left;  
}
```

```
<style>  
    table, th, td {  
        border: 1px solid black;  
        border-collapse: collapse;  
    }  
    th {  
        text-align: center;  
    }  
</style>
```

Align Table Headers

```
<!DOCTYPE html>
<html>
<head>
<style>
  table, th, td {
    border: 1px solid black;
    border-collapse: collapse;
  }
  th {
    text-align: center;
  }
</style>
</head>
<body>
  <h2>Left-align Headers</h2>
  <table style="width:100%">
    <tr>
      <th>Firstname</th>
      <th>Lastname</th>
      <th>Age</th>
    </tr>
    <tr>
      <td>Jill</td>
      <td>Smith</td>
      <td>50</td>
    </tr>
    <tr>
      <td>Eve</td>
      <td>Jackson</td>
      <td>94</td>
    </tr>
  </table>
</body>
</html>
```

Left-align Headers

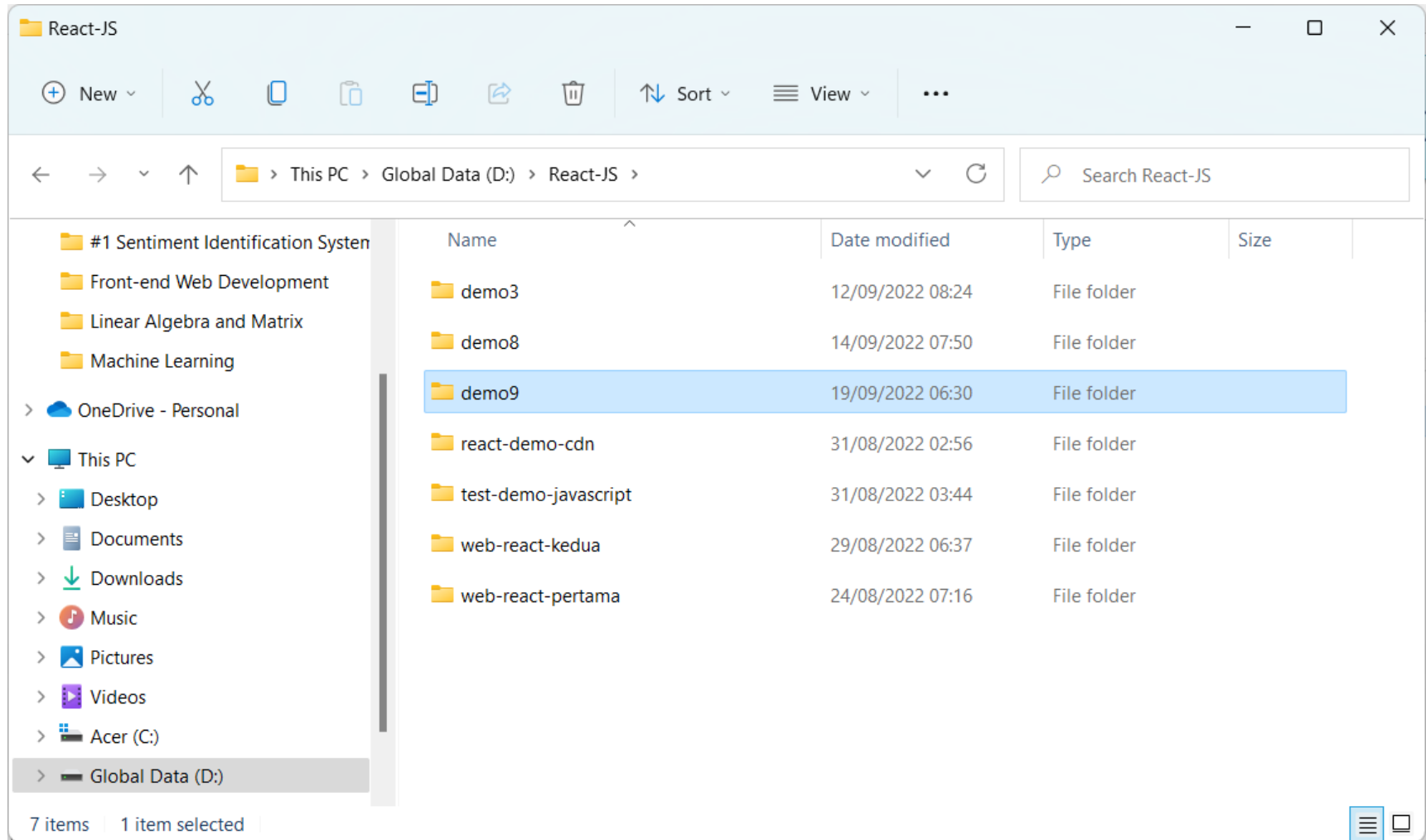
Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94

To center-align the table headers, use the CSS text-align property.



Exercise *for* Students

Create New Working Directory



Exercise #1

Table Dynamically (Insert, Update & Delete Rows)

Folder Exercise#1

Create 2 files in directory “**exercise1**”.

exercise1

New ▾

Sort ▾ View ▾

← → ▾ ↑

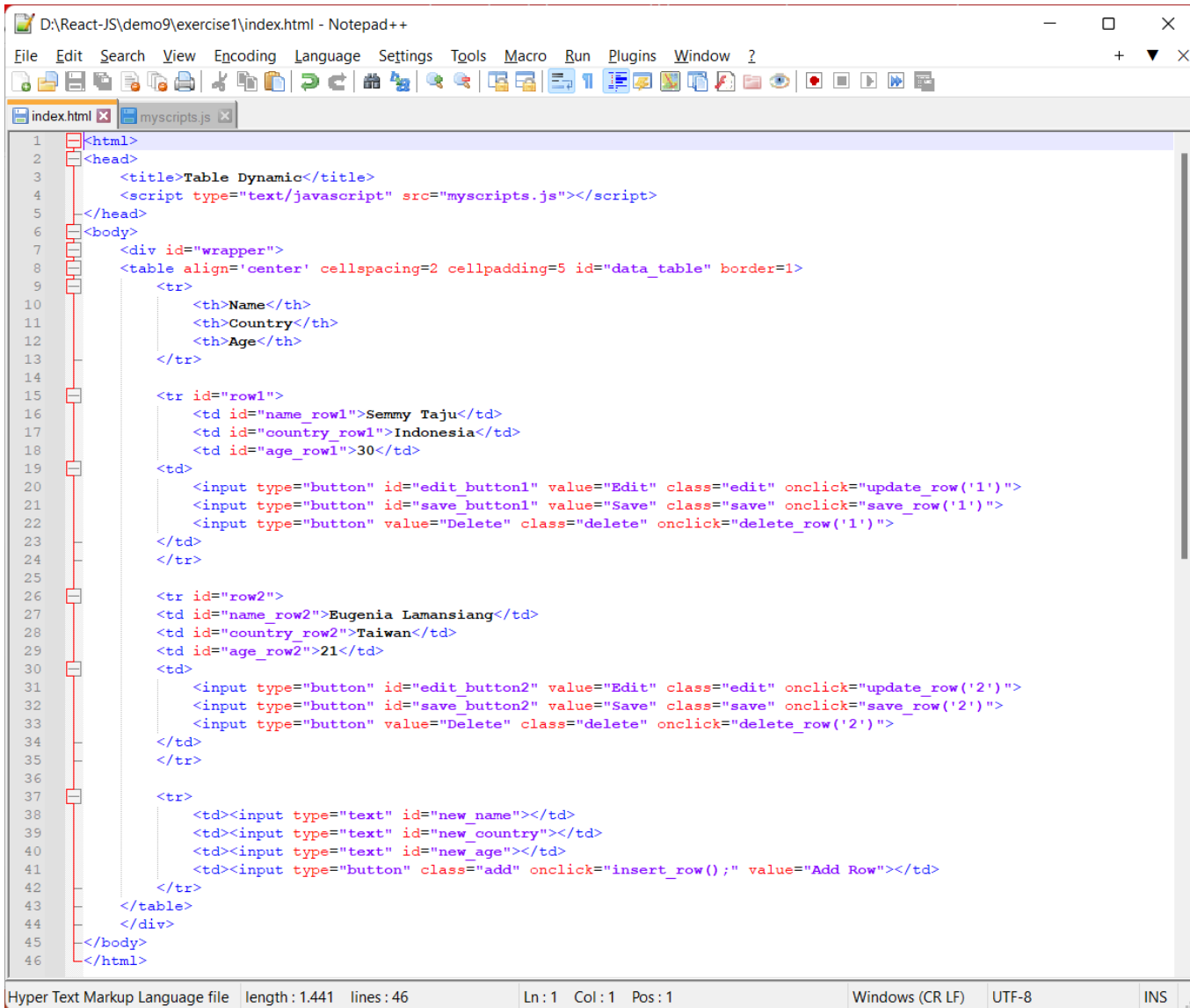
📁 > This PC > Global Data (D:) > React-JS > demo9 > exercise1

🔍 Search exercise1

Name	Date modified	Type	Size
index.html	14/09/2022 06:37	HTML File	1 KB
myscripts.js	14/09/2022 06:40	JS File	1 KB

2 items | 2 items selected 739 bytes

Write Code *in* HTML File



```
1 <html>
2 <head>
3   <title>Table Dynamic</title>
4   <script type="text/javascript" src="myscripts.js"></script>
5 </head>
6 <body>
7   <div id="wrapper">
8     <table align="center" cellspacing=2 cellpadding=5 id="data_table" border=1>
9       <tr>
10        <th>Name</th>
11        <th>Country</th>
12        <th>Age</th>
13      </tr>
14
15      <tr id="row1">
16        <td id="name_row1">Semmy Taju</td>
17        <td id="country_row1">Indonesia</td>
18        <td id="age_row1">30</td>
19
20        <input type="button" id="edit_button1" value="Edit" class="edit" onclick="update_row('1')">
21        <input type="button" id="save_button1" value="Save" class="save" onclick="save_row('1')">
22        <input type="button" value="Delete" class="delete" onclick="delete_row('1')">
23      </td>
24    </tr>
25
26    <tr id="row2">
27      <td id="name_row2">Eugenia Lamansiang</td>
28      <td id="country_row2">Taiwan</td>
29      <td id="age_row2">21</td>
30
31      <input type="button" id="edit_button2" value="Edit" class="edit" onclick="update_row('2')">
32      <input type="button" id="save_button2" value="Save" class="save" onclick="save_row('2')">
33      <input type="button" value="Delete" class="delete" onclick="delete_row('2')">
34    </td>
35  </tr>
36
37  <tr>
38    <td><input type="text" id="new_name"></td>
39    <td><input type="text" id="new_country"></td>
40    <td><input type="text" id="new_age"></td>
41    <td><input type="button" class="add" onclick="insert_row();" value="Add Row"></td>
42  </tr>
43 </table>
44 </div>
45 </body>
46 </html>
```

Hyper Text Markup Language file length : 1,441 lines : 46 Ln : 1 Col : 1 Pos : 1 Windows (CR LF) UTF-8 INS

Write Code in Javascript File

```
D:\React-JS\demo9\exercise1\myscripts.js - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
index.html myscripts.js
1 // update table rows
2 function update_row(no) {
3     document.getElementById("edit_button"+no).style.display="none";
4     document.getElementById("save_button"+no).style.display="block";
5
6     var name=document.getElementById("name_row"+no);
7     var country=document.getElementById("country_row"+no);
8     var age=document.getElementById("age_row"+no);
9
10    var name_data=name.innerHTML;
11    var country_data=country.innerHTML;
12    var age_data=age.innerHTML;
13
14    name.innerHTML="<input type='text' id='name_text"+no+"' value='"+name_data+"'>";
15    country.innerHTML="<input type='text' id='country_text"+no+"' value='"+country_data+"'>";
16    age.innerHTML="<input type='text' id='age_text"+no+"' value='"+age_data+"'>";
17 }
18
19 // store table rows
20 function save_row(no) {
21     var name_val=document.getElementById("name_text"+no).value;
22     var country_val=document.getElementById("country_text"+no).value;
23     var age_val=document.getElementById("age_text"+no).value;
24
25     document.getElementById("name_row"+no).innerHTML=name_val;
26     document.getElementById("country_row"+no).innerHTML=country_val;
27     document.getElementById("age_row"+no).innerHTML=age_val;
28
29     document.getElementById("edit_button"+no).style.display="block";
30     document.getElementById("save_button"+no).style.display="none";
31 }
32
33 // delete table rows
34 function delete_row(no) {
35     document.getElementById("row"+no+"").innerHTML="";
36 }
37
38 // insert new table rows
39 function insert_row() {
40     var new_name=document.getElementById("new_name").value;
41     var new_country=document.getElementById("new_country").value;
42     var new_age=document.getElementById("new_age").value;
43
44     var table=document.getElementById("data_table");
45     var table_len=(table.rows.length)-1;
46     var row = table.insertRow(table_len).innerHTML="<tr id='row"+table_len+"'><td id='name_row"+
table_len+"'>"+new_name+"</td><td id='country_row"+table_len+"'>"+new_country+"</td><td
id='age_row"+table_len+"'>"+new_age+"</td><td><input type='button' id='edit_button"+table_len
+' value='Edit' class='edit' onclick='update_row("+table_len+")'> <input type='button'
id='save_button"+table_len+' value='Save' class='save' onclick='save_row("+table_len+")'>
<input type='button' value='Delete' class='delete' onclick='delete_row("+table_len+
")'></td></tr>";
47
48     document.getElementById("new_name").value="";
49     document.getElementById("new_country").value="";
50     document.getElementById("new_age").value="";
51 }
```


Expected Output

Table Dynamic

File | D:/React-JS/demo9/exercise1/index.html

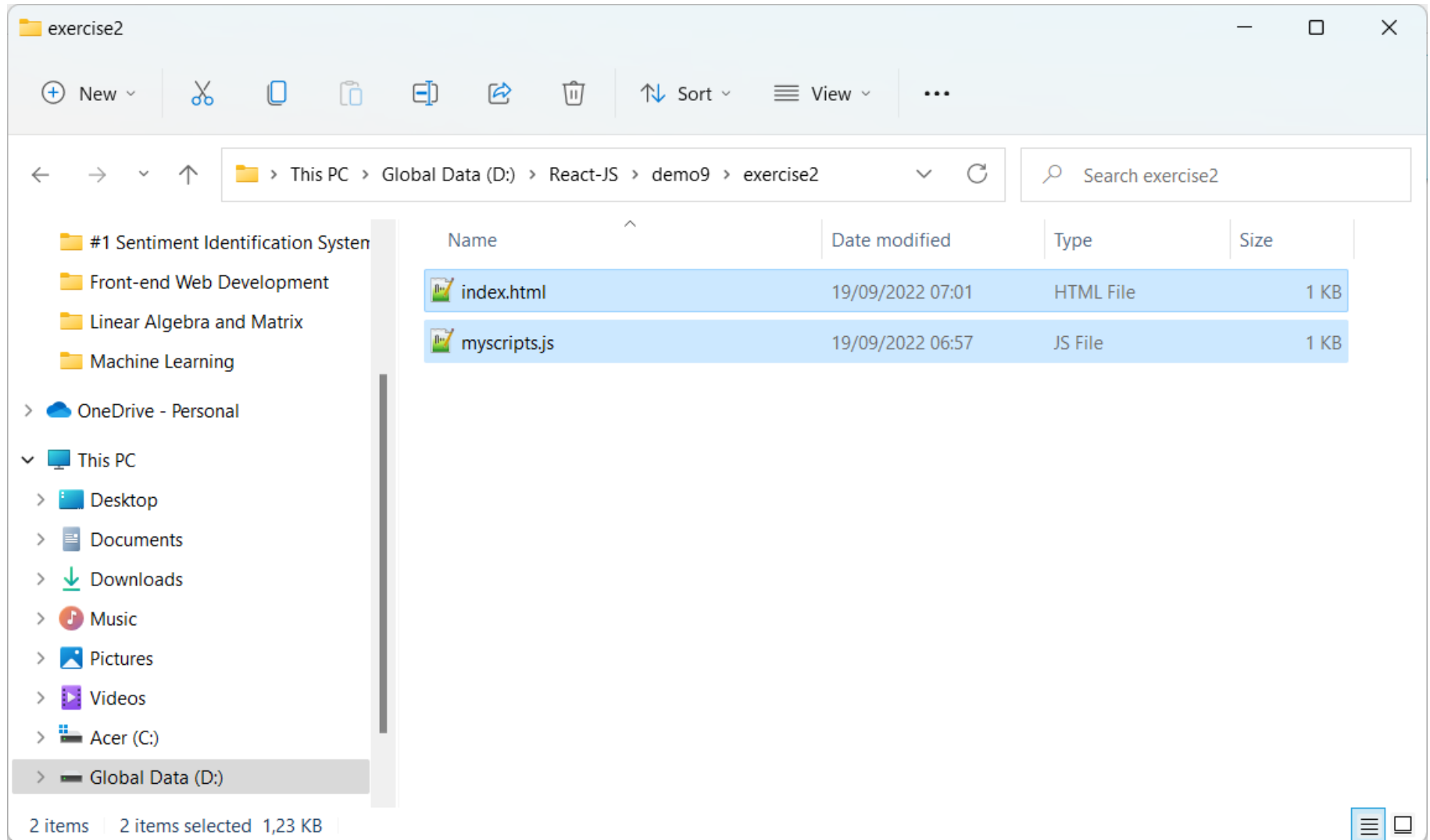
Name	Country	Age	
Semmy Taju	Indonesia	30	<button>Edit</button> <button>Save</button> <button>Delete</button>
Eugenia Lamansiang	Taiwan	21	<button>Edit</button> <button>Save</button> <button>Delete</button>
Dinda Maluis	Canada	27	<button>Edit</button> <button>Save</button> <button>Delete</button>
Mawar Gunawan	China	22	<button>Edit</button> <button>Save</button> <button>Delete</button>
Reynold Takilisan	Malaysia	33	<button>Edit</button> <button>Save</button> <button>Delete</button>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<button>Add Row</button>

Exercise #2

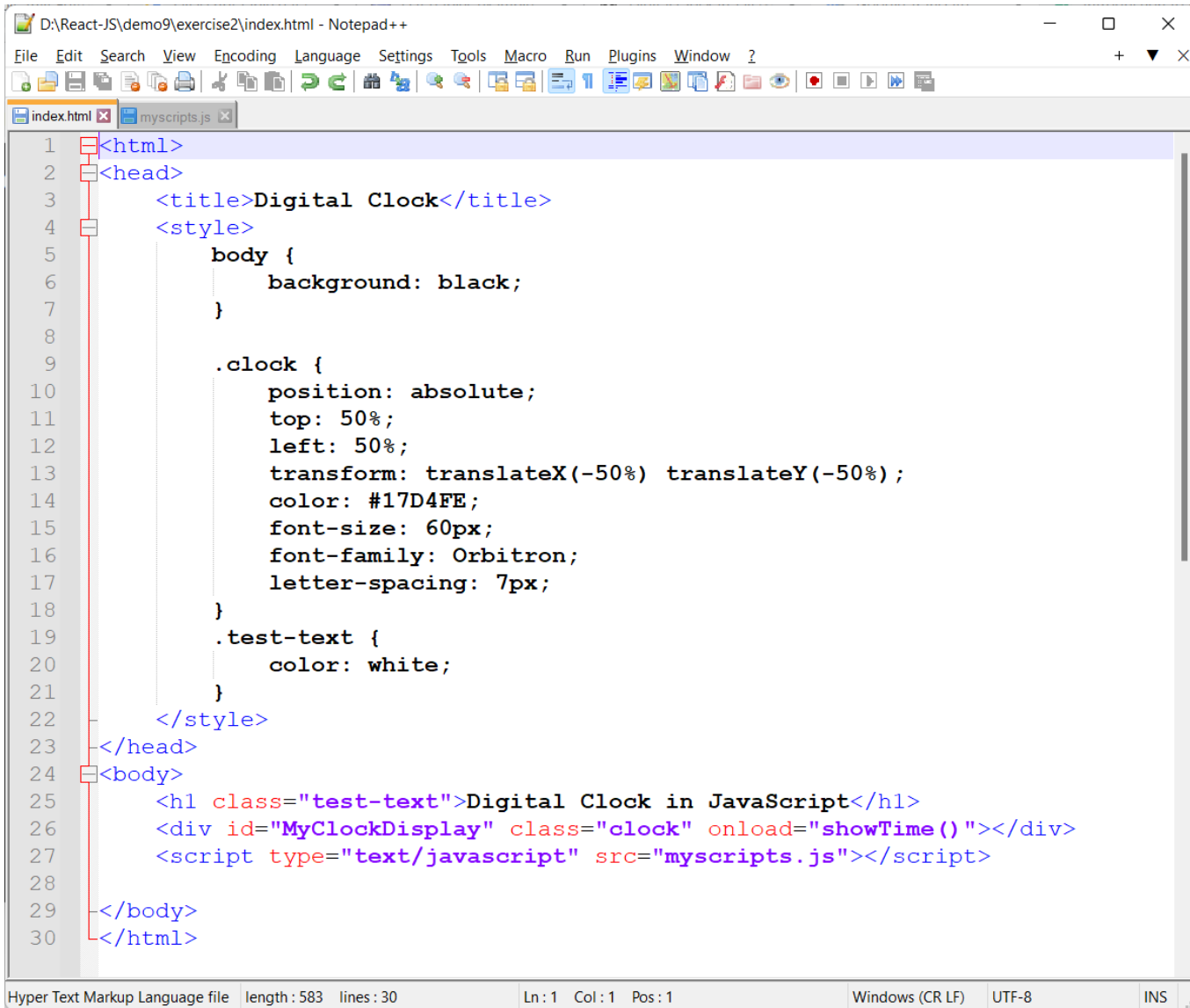
Create Digital Clock *in* JavaScript

Folder Exercise#2

Create 2 files in directory “**exercise2**”.



Write Code *in* HTML File

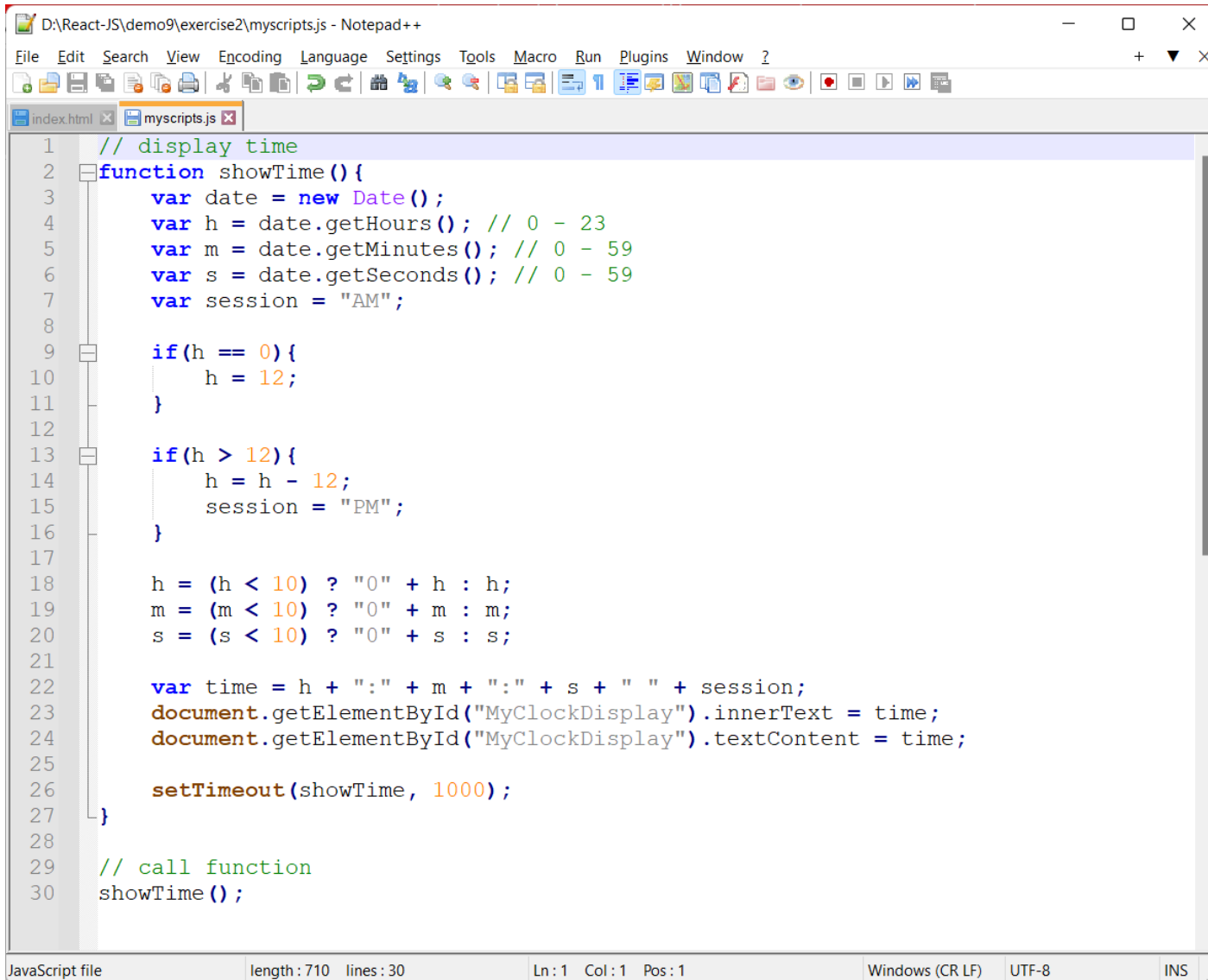


The image shows a Notepad++ window with the file path "D:\React-JS\demo9\exercise2\index.html". The editor contains HTML and CSS code for a digital clock. The code is as follows:

```
1 <html>
2 <head>
3   <title>Digital Clock</title>
4   <style>
5     body {
6       background: black;
7     }
8
9     .clock {
10      position: absolute;
11      top: 50%;
12      left: 50%;
13      transform: translateX(-50%) translateY(-50%);
14      color: #17D4FE;
15      font-size: 60px;
16      font-family: Orbitron;
17      letter-spacing: 7px;
18    }
19    .test-text {
20      color: white;
21    }
22  </style>
23 </head>
24 <body>
25   <h1 class="test-text">Digital Clock in JavaScript</h1>
26   <div id="MyClockDisplay" class="clock" onload="showTime()"></div>
27   <script type="text/javascript" src="myscripts.js"></script>
28
29 </body>
30 </html>
```

The status bar at the bottom indicates: "Hyper Text Markup Language file", "length : 583", "lines : 30", "Ln : 1 Col : 1 Pos : 1", "Windows (CR LF)", "UTF-8", and "INS".

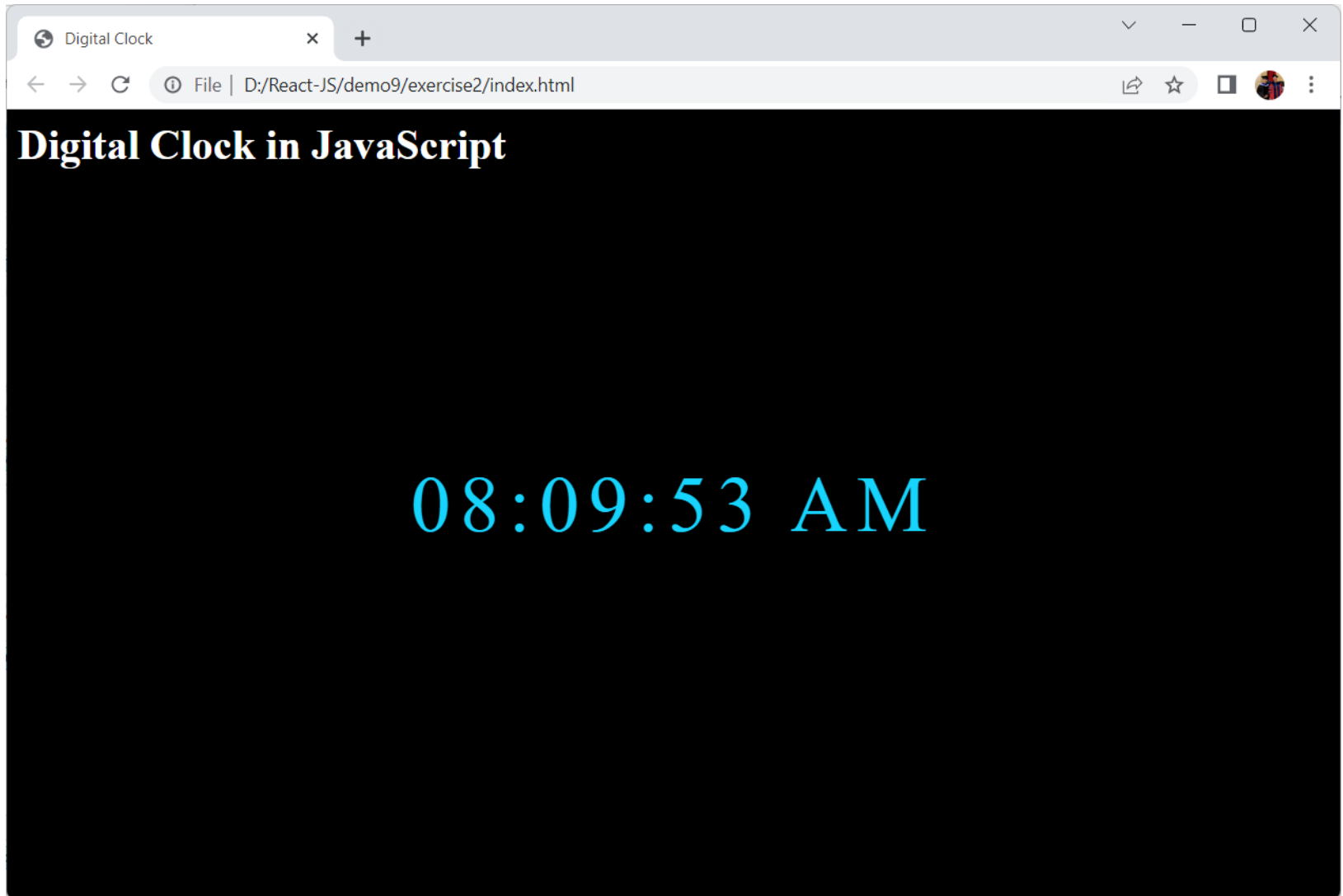
Write Code *in* Javascript File



```
1 // display time
2 function showTime() {
3     var date = new Date();
4     var h = date.getHours(); // 0 - 23
5     var m = date.getMinutes(); // 0 - 59
6     var s = date.getSeconds(); // 0 - 59
7     var session = "AM";
8
9     if(h == 0){
10         h = 12;
11     }
12
13     if(h > 12){
14         h = h - 12;
15         session = "PM";
16     }
17
18     h = (h < 10) ? "0" + h : h;
19     m = (m < 10) ? "0" + m : m;
20     s = (s < 10) ? "0" + s : s;
21
22     var time = h + ":" + m + ":" + s + " " + session;
23     document.getElementById("MyClockDisplay").innerText = time;
24     document.getElementById("MyClockDisplay").textContent = time;
25
26     setTimeout(showTime, 1000);
27 }
28
29 // call function
30 showTime();
```

JavaScript file length: 710 lines: 30 Ln: 1 Col: 1 Pos: 1 Windows (CR LF) UTF-8 INS

Expected Output



END PRESENTATION

Thank you for your attention

Instructor: S – W – T

THANK YOU

