Practical – 3

AIM:

Perform the Following tasks using the JavaScript.

- **Print prime Numbers up to given value in the input box**
- **Write Script to reverse the given input string**
- **Create Dynamic Multiplication Table using inputs**
- **Find the Age from input date.(Ex. 17 Yrs, 3 Monts,13 Days)**
- **Find the No. of Days between two given dates**

Source Code:

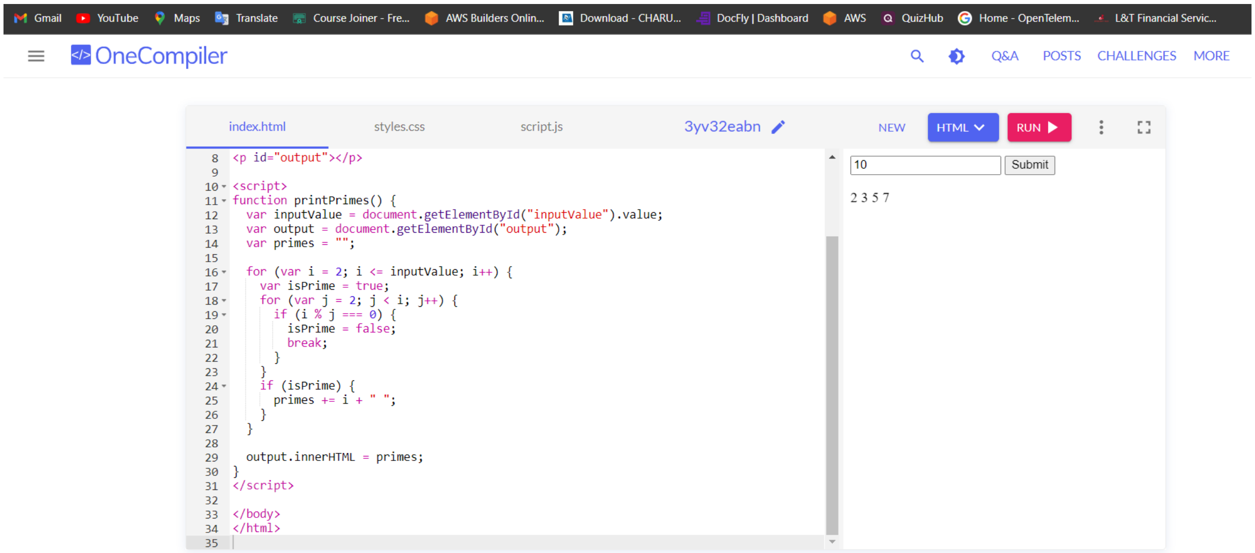
1. **Print prime Numbers up to given value in the input box**

Source Code:

```
<!DOCTYPE html>
<html>
<body>
<input type="text" id="inputValue" placeholder="Enter a value">
<button onclick="printPrimes()">Submit</button>
<p id="output"></p>
<script>
function printPrimes() {
  var inputValue = document.getElementById("inputValue").value;
  var output = document.getElementById("output");
  var primes = "";
  for (var i = 2; i <= inputValue; i++) {
    var isPrime = true;
    for (var j = 2; j < i; j++) {
      if (i % j === 0) {
        isPrime = false;
        break;
      }
```

```
        }
        if (isPrime) {
          primes += i + " ";
        }
      }
      output.innerHTML = primes;
    }
    </script>
    </body>
    </html>
```

Output:



```
<p id="output"></p>

<script>
function printPrimes() {
  var inputValue = document.getElementById("inputValue").value;
  var output = document.getElementById("output");
  var primes = "";

  for (var i = 2; i <= inputValue; i++) {
    var isPrime = true;
    for (var j = 2; j < i; j++) {
      if (i % j === 0) {
        isPrime = false;
        break;
      }
    }
    if (isPrime) {
      primes += i + " ";
    }
  }

  output.innerHTML = primes;
}
</script>

</body>
</html>
```

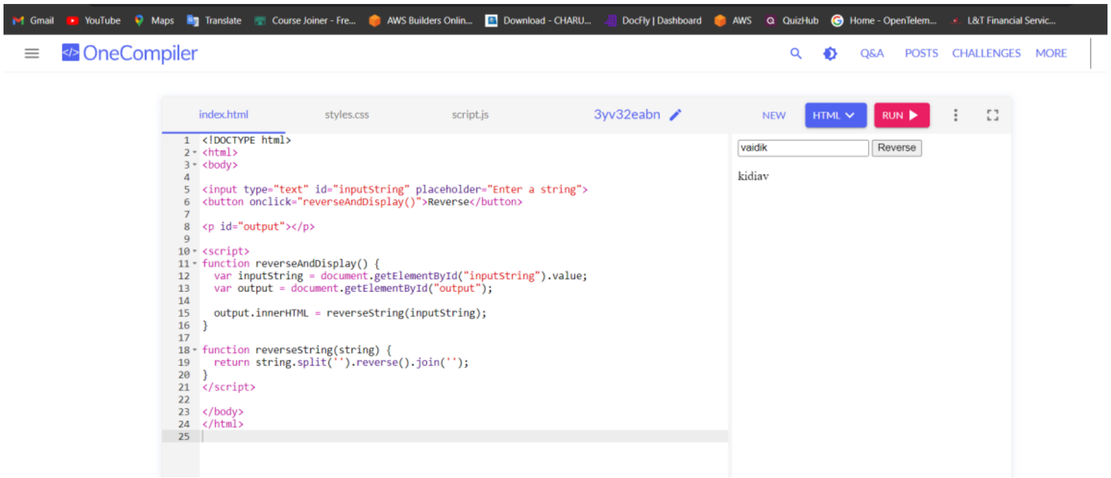
```
10 Submit

2 3 5 7
```

2. Write Script to reverse the given input string

Source code:

```
<!DOCTYPE html>
<html>
<body>

<input type="text" id="inputString" placeholder="Enter a string">
<button onclick="reverseAndDisplay()">Reverse</button>
<p id="output"></p>
<script>
function reverseAndDisplay() {
  var inputString = document.getElementById("inputString").value;
  var output = document.getElementById("output");
  output.innerHTML = reverseString(inputString);
}
function reverseString(string) {
  return string.split('').reverse().join('');
}
</script>
</body>
</html>
```

OutPut:



```
<!DOCTYPE html>
<html>
<body>

<input type="text" id="inputString" placeholder="Enter a string">
<button onclick="reverseAndDisplay()">Reverse</button>

<p id="output"></p>

<script>
function reverseAndDisplay() {
  var inputString = document.getElementById("inputString").value;
  var output = document.getElementById("output");

  output.innerHTML = reverseString(inputString);
}

function reverseString(string) {
  return string.split('').reverse().join('');
}
</script>

</body>
</html>

```

vaidik

kidiav

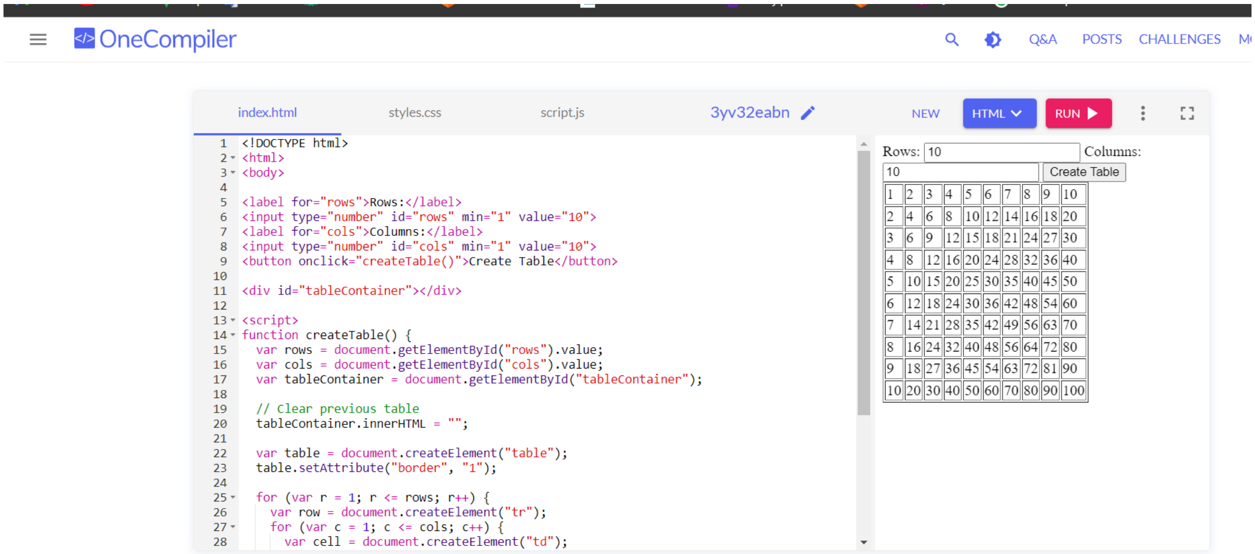
3. Create Dynamic Multiplication Table using inputs

Source code:

```
<!DOCTYPE html>

<html>

<body>

<label for="rows">Rows:</label>

<input type="number" id="rows" min="1" value="10">

<label for="cols">Columns:</label>

<input type="number" id="cols" min="1" value="10">

<button onclick="createTable()">Create Table</button>

<div id="tableContainer"></div>

<script>

function createTable() {

  var rows = document.getElementById("rows").value;

  var cols = document.getElementById("cols").value;

  var tableContainer = document.getElementById("tableContainer");
```

```
    tableContainer.innerHTML = "";

    var table = document.createElement("table");

    table.setAttribute("border", "1");

    for (var r = 1; r <= rows; r++) {

      var row = document.createElement("tr");

      for (var c = 1; c <= cols; c++) {

        var cell = document.createElement("td");

        cell.innerHTML = r * c;

        row.appendChild(cell);

      }

      table.appendChild(row);

    }

    tableContainer.appendChild(table);

  }

</script>

</body>

</html>
```

Output:



```
<!DOCTYPE html>
<html>
<body>

<label for="rows">Rows:</label>
<input type="number" id="rows" min="1" value="10">
<label for="cols">Columns:</label>
<input type="number" id="cols" min="1" value="10">
<button onclick="createTable()">Create Table</button>

<div id="tableContainer"></div>

<script>
function createTable() {
  var rows = document.getElementById("rows").value;
  var cols = document.getElementById("cols").value;
  var tableContainer = document.getElementById("tableContainer");

  // Clear previous table
  tableContainer.innerHTML = "";

  var table = document.createElement("table");
  table.setAttribute("border", "1");

  for (var r = 1; r <= rows; r++) {
    var row = document.createElement("tr");
    for (var c = 1; c <= cols; c++) {
      var cell = document.createElement("td");
```

Rows: 10 Columns: 10 Create Table

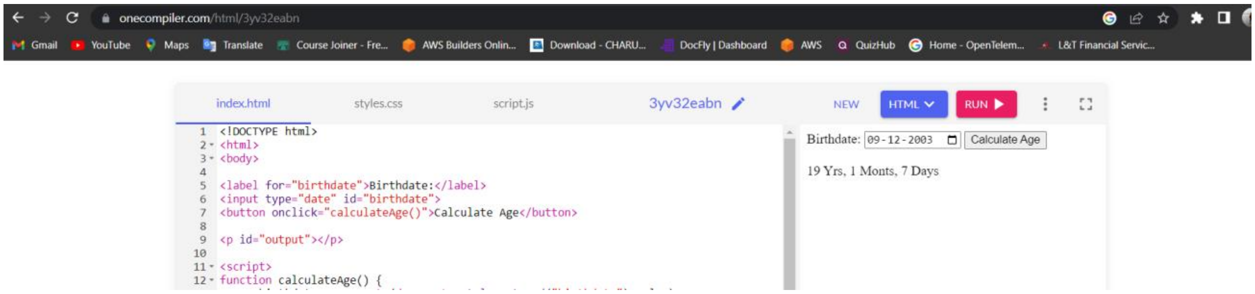
1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

4. Find the Age from input date.(Ex. 17 Yrs, 3 Monts,13 Days)

Source Code:

```
<!DOCTYPE html>

<html>

<body>

<label for="birthdate">Birthdate:</label>

<input type="date" id="birthdate">

<button onclick="calculateAge()">Calculate Age</button>

<p id="output"></p>

<script>

function calculateAge() {

  var birthdate = new Date(document.getElementById("birthdate").value);

  var today = new Date();

  var ageInMilliseconds = today - birthdate;
  var ageInSeconds = ageInMilliseconds / 1000;

  var ageInMinutes = ageInSeconds / 60;

  var ageInHours = ageInMinutes / 60;

  var ageInDays = ageInHours / 24;

  var ageInMonths = ageInDays / 30.44;

  var ageInYears = ageInMonths / 12;

  var years = Math.floor(ageInYears);

  var months = Math.floor(ageInMonths % 12);

  var days = Math.floor(ageInDays % 30.44);

  var output = document.getElementById("output");

  output.innerHTML = years + " Yrs, " + months + " Monts, " + days + " Days";

}

</script>

</body>

</html>
```

Output:



```
<!DOCTYPE html>
<html>
<body>

<label for="birthdate">Birthdate:</label>
<input type="date" id="birthdate">
<button onclick="calculateAge()">Calculate Age</button>

<p id="output"></p>

<script>
function calculateAge() {
```

Birthdate: 09-12-2003 Calculate Age

19 Yrs, 1 Monts, 7 Days

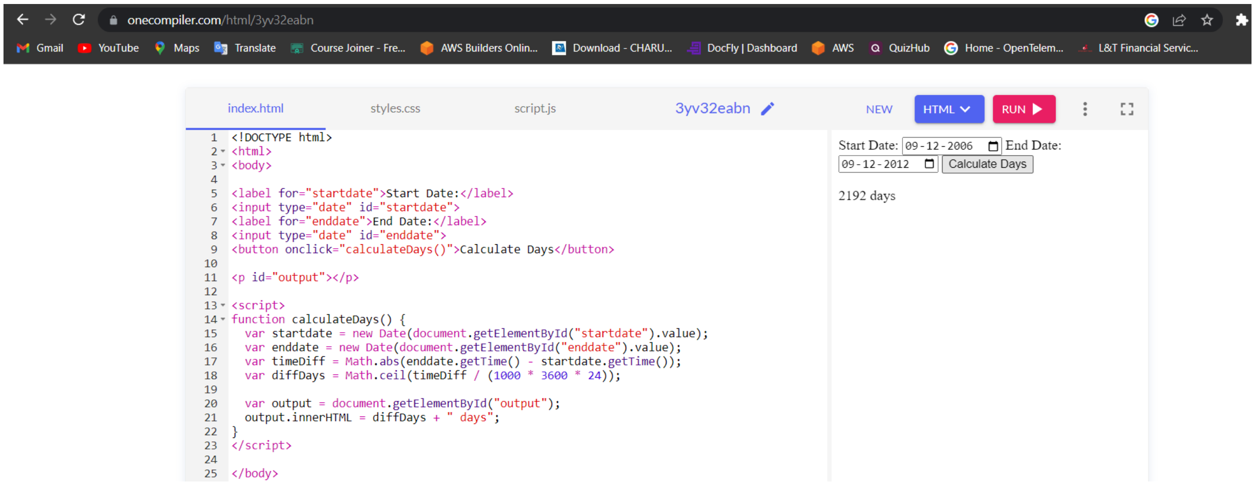
5. Find the No. of Days between two given dates

Source code:

```
<!DOCTYPE html>
```

```
<html>
<body>
<label for="startdate">Start Date:</label>
<input type="date" id="startdate">
<label for="enddate">End Date:</label>
<input type="date" id="enddate">
<button onclick="calculateDays()">Calculate Days</button>
<p id="output"></p>
<script>
function calculateDays() {
  var startdate = new Date(document.getElementById("startdate").value);
  var enddate = new Date(document.getElementById("enddate").value);
  var timeDiff = Math.abs(enddate.getTime() - startdate.getTime());
  var diffDays = Math.ceil(timeDiff / (1000 * 3600 * 24));
  var output = document.getElementById("output");
  output.innerHTML = diffDays + " days";
}
</script>
</body>
</html>
```

Output:



```
<!DOCTYPE html>
<html>
<body>

<label for="startdate">Start Date:</label>
<input type="date" id="startdate">
<label for="enddate">End Date:</label>
<input type="date" id="enddate">
<button onclick="calculateDays()">Calculate Days</button>

<p id="output"></p>

<script>
function calculateDays() {
  var startdate = new Date(document.getElementById("startdate").value);
  var enddate = new Date(document.getElementById("enddate").value);
  var timeDiff = Math.abs(enddate.getTime() - startdate.getTime());
  var diffDays = Math.ceil(timeDiff / (1000 * 3600 * 24));

  var output = document.getElementById("output");
  output.innerHTML = diffDays + " days";
}
</script>

</body>
```

Start Date: 09-12-2006 End Date: 09-12-2012 Calculate Days

```
2192 days
```

Conclusion:

Threw loops and strings this all are used for various ttpe of logic and ouput.

Course Outcome:

This all type of method is used for good and efficient output.