

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;

            }

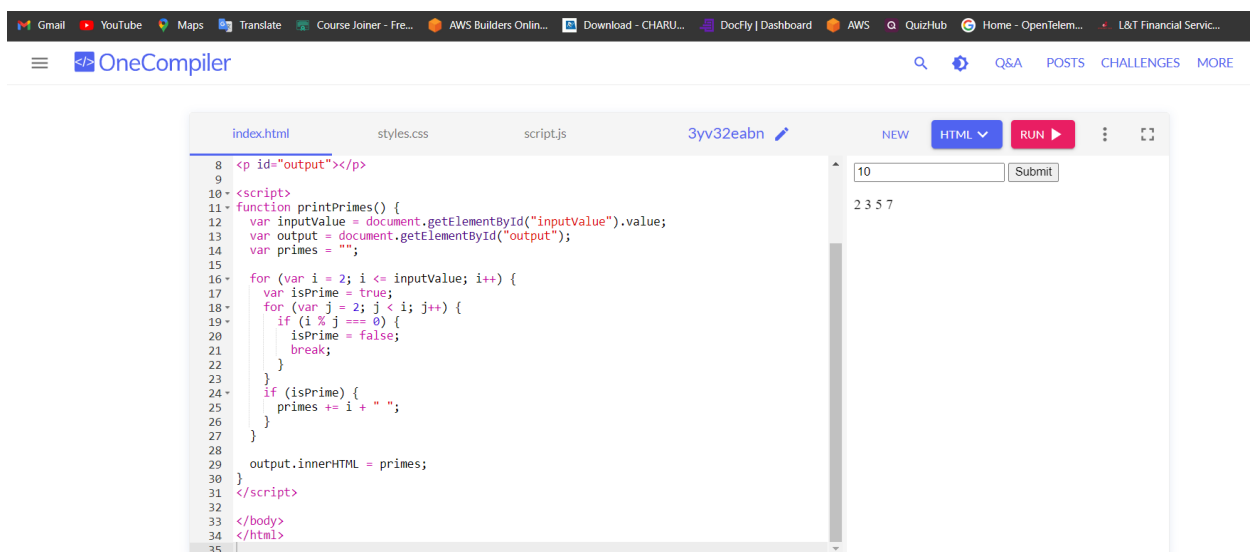
        }

    }

}
```

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

Output:



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("");

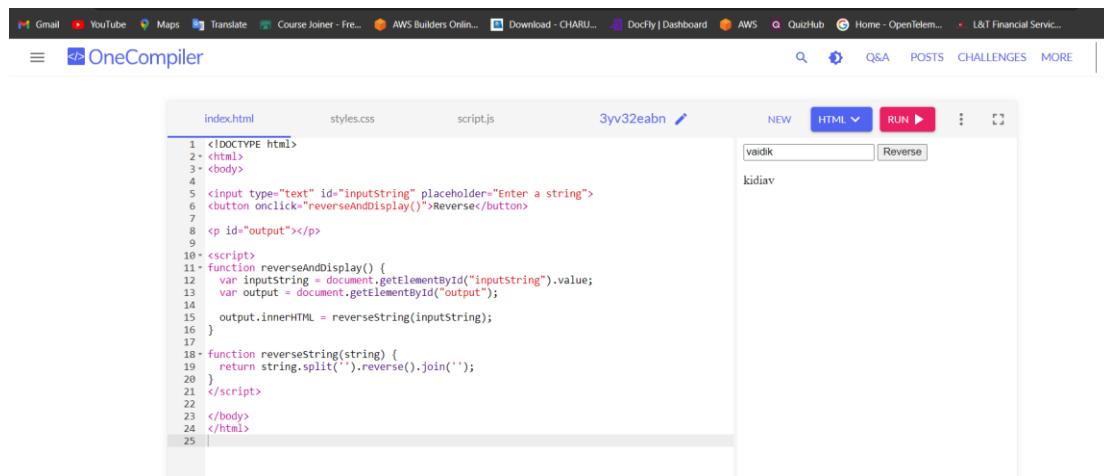
}

</script>

</body>

</html>
```

OutPut:



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:

The screenshot shows the OneCompiler online IDE. The code editor displays the following HTML and JavaScript code:

```

1 <!DOCTYPE html>
2 <html>
3 <body>
4
5 <label for="rows">Rows:</label>
6 <input type="number" id="rows" min="1" value="10">
7 <label for="cols">Columns:</label>
8 <input type="number" id="cols" min="1" value="10">
9 <button onclick="createTable()">Create Table</button>
10
11 <div id="tableContainer"></div>
12
13 <script>
14 function createTable() {
15   var rows = document.getElementById("rows").value;
16   var cols = document.getElementById("cols").value;
17   var tableContainer = document.getElementById("tableContainer");
18
19   // Clear previous table
20   tableContainer.innerHTML = "";
21
22   var table = document.createElement("table");
23   table.setAttribute("border", "1");
24
25   for (var r = 1; r <= rows; r++) {
26     var row = document.createElement("tr");
27     for (var c = 1; c <= cols; c++) {
28       var cell = document.createElement("td");

```

The preview on the right shows a 10x10 table with sequential numbers from 1 to 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";

}

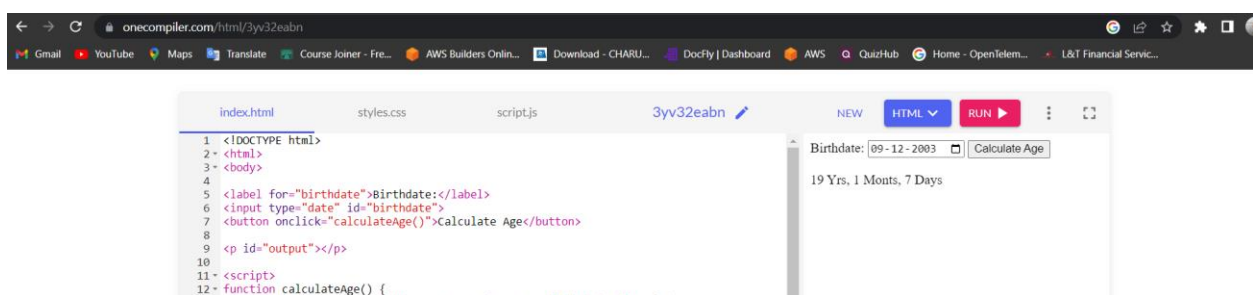
</script>

</body>

</html>

```

Output:



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";

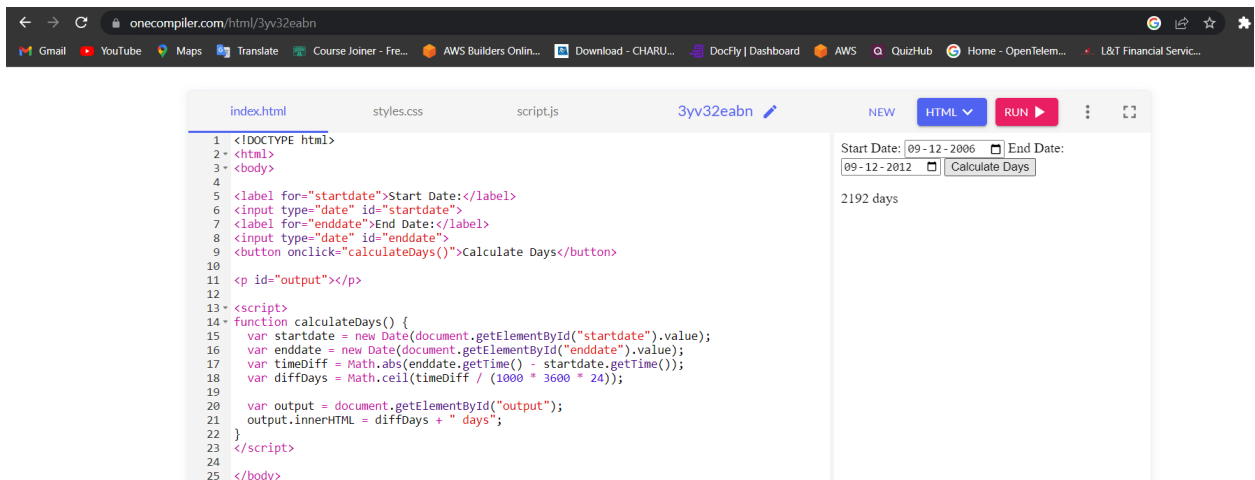
}

</script>

</body>

</html>
```

Output:



Conclusion:

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

Course Outcome:

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