

Practical – 3

AIM: Print prime Numbers up to given value in the input box

Source Code:

```
<!DOCTYPE html>

<html>

<head>

<title>Prime Number Generator</title>

<script type="text/javascript">

function printPrimes() {

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

var primes = "";


for (var i = 2; i <= input; i++) {

var isPrime = true;

for (var j = 2; j <= Math.sqrt(i); j++) {

if (i % j == 0) {

isPrime = false;

break;

}

}

if (isPrime) {

primes += i + " ";

}

}

document.getElementById("primes").innerHTML = primes;

}
```

```
</script>

</head>

<body>

  <h1>Prime Number Generator</h1>

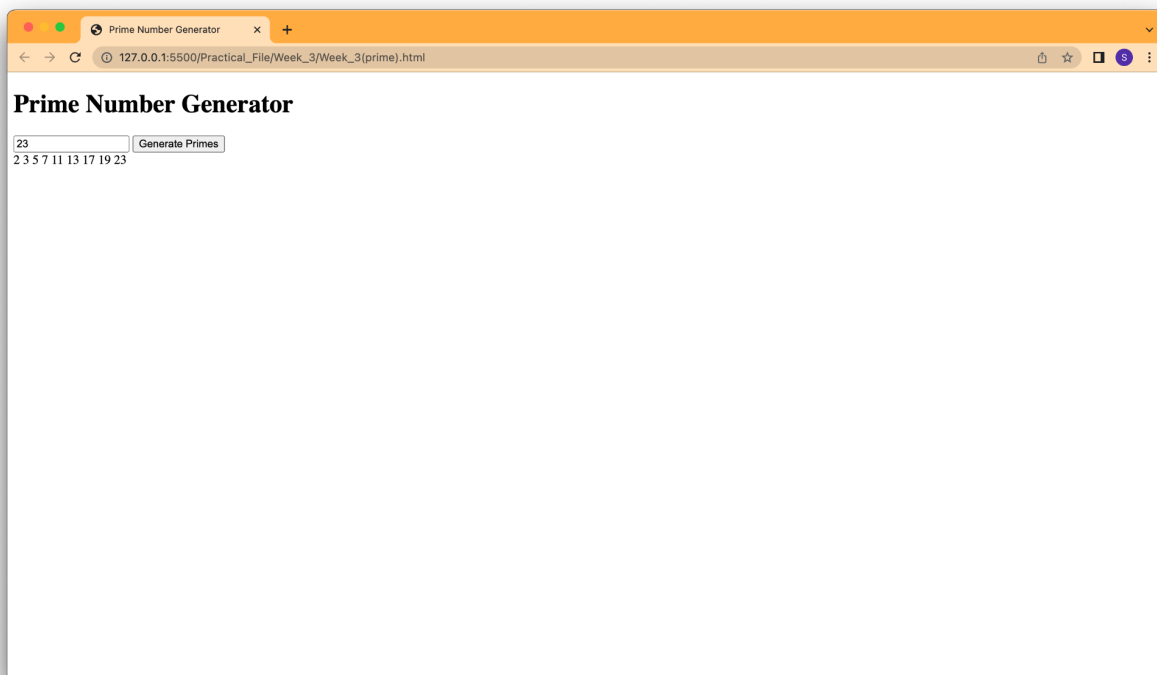
  <input type="number" id="input" min="1" value="15"></input>

  <button onclick="printPrimes()">Generate Primes</button>

  <div id="primes"></div>

</body>

</html>
```

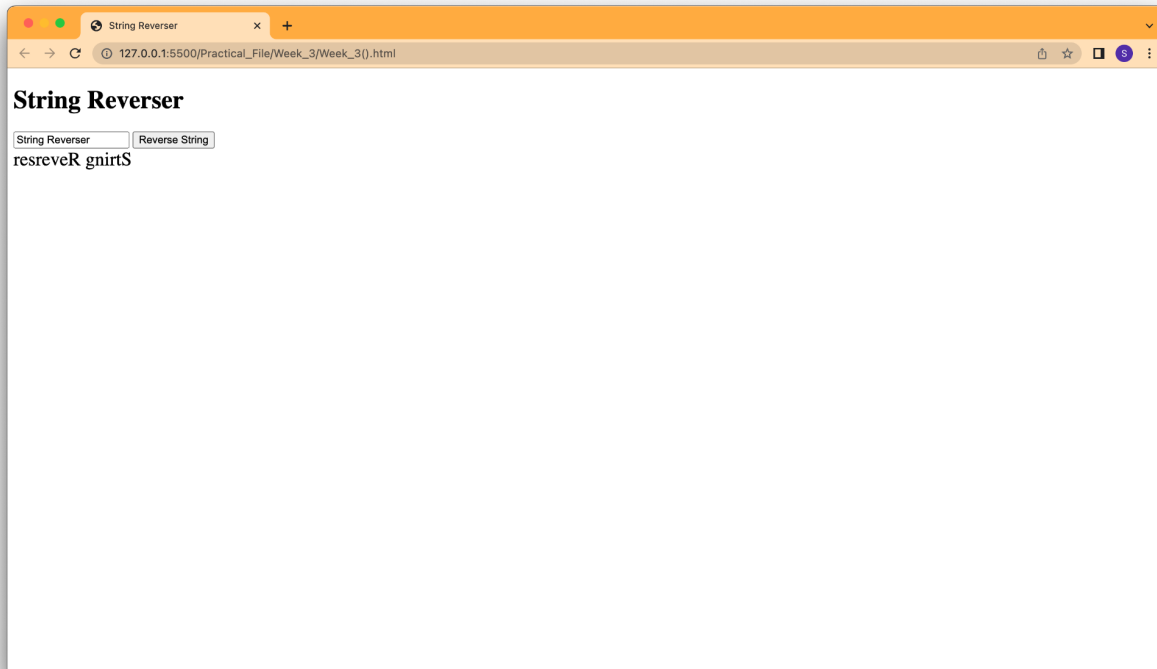
Output:

AIM: Write Script to reverse the given input string

Source Code:

```
<!DOCTYPE html>
<html>      <head>
<title>String Reverser</title>
<script type="text/javascript">
function reverseString() {
var input = document.getElementById("input").value;
var reversed = input.split("").reverse().join("");
document.getElementById("reversed").innerHTML = reversed;}
</script>
</head>      <body>
<h1>String Reverser</h1>
<input type="text" id="input">      </input>
<button onclick="reverseString()">Reverse String</button>
<div id="reversed"></div>
<style>      #reversed {font-size:1.5em;}      </style>
</body>      </html>
```

Output:



AIM: Create Dynamic Multiplication Table using inputs**Source Code:**

```
<!DOCTYPE html>
<html>

<head>

<title>Multiplication Table</title>

<script type="text/javascript">

function generateTable() {
var rows = document.getElementById("rows").value;
var cols = document.getElementById("cols").value;
var table = document.createElement("table");
var tableBody = document.createElement("tbody");
var row, cell, text;
for (var i = 0; i <= rows; i++) {
row = document.createElement("tr");
for (var j = 0; j <= cols; j++) {
cell = document.createElement("td");
text = document.createTextNode(i * j);
cell.appendChild(text);
row.appendChild(cell); }
tableBody.appendChild(row); }
table.appendChild(tableBody);
document.getElementById("table").appendChild(table);    }

</script>

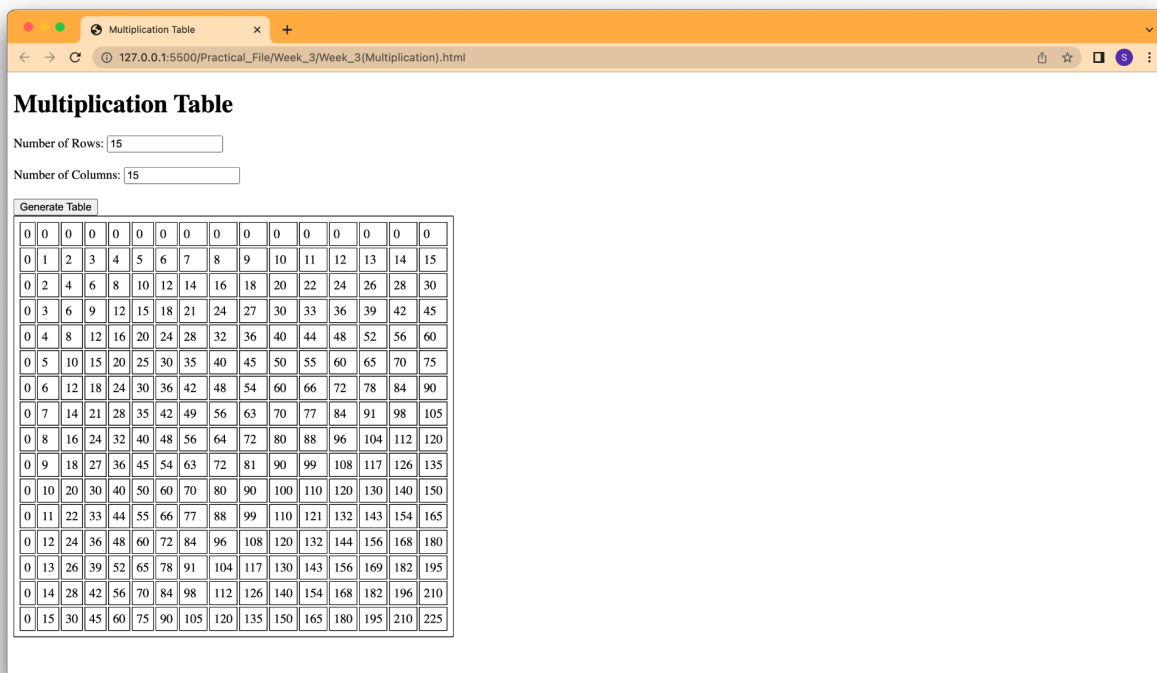
<style>
table, td {      border:1px solid black;      padding:5px; }
```

```

</style>
</head>
<body>
<h1>Multiplication Table</h1>
<label for="rows">Number of Rows:</label>
<input type="number" id="rows" min="1" value="10"></input><BR><BR>
<label for="cols">Number of Columns:</label>
<input type="number" id="cols" min="1" value="10"></input><BR><BR>
<button onclick="generateTable()">Generate Table</button>
<div id="table">      </div>
</body>
</html>

```

Output:



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

Source Code:

```
<!DOCTYPE html>

<html>
<head>
<title>Age Calculator</title>
<script type="text/javascript">

function calculateAge() {
var input = document.getElementById("input").value;
var birthdate = new Date(input);
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 / 30.4;
var ageInYears = ageInMonths / 12;
var years = Math.floor(ageInYears);
var months = Math.floor(ageInMonths % 12);
var days = Math.floor(ageInDays % 30.4);
var age = years + " Yrs, " + months + " Monts, " + days + " Days";
document.getElementById("age").innerHTML = age;
}
</script>
```

```
</head>

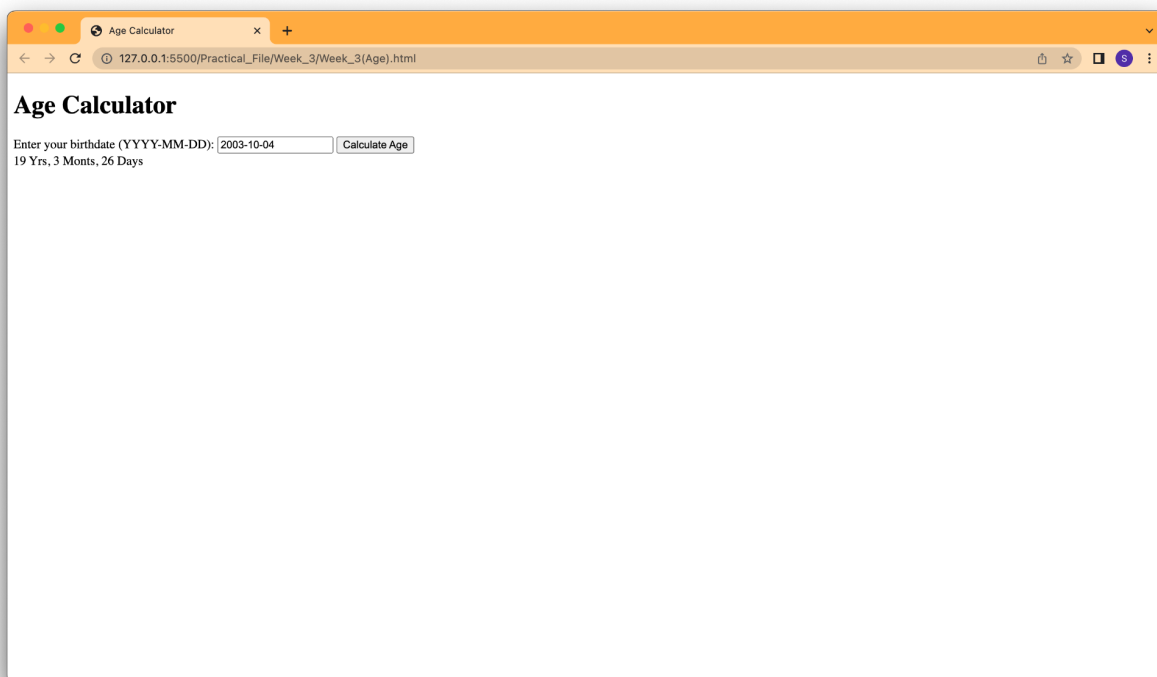
<body>

<h1>Age Calculator</h1>

<label for="input">Enter your birthdate (YYYY-MM-DD):</label>
<input type="text" id="input"></input>
<button onclick="calculateAge()">Calculate Age</button>
<div id="age"></div>

</body>

</html>
```

Output:

AIM: Find the No. of Days between two given dates

Source Code:

```
<!DOCTYPE html>

<html>

<head>

<title>Date Difference Calculator</title>

<script type="text/javascript">

function calculateDifference() {
var start = new Date(document.getElementById("start").value);
var end = new Date(document.getElementById("end").value);
var timeDiff = end - start;
var diffDays = Math.ceil(timeDiff / (1000 * 3600 * 24));
document.getElementById("difference").innerHTML = diffDays + " Days";}

</script>

</head>

<body>

<h1>Date Difference Calculator</h1>

<label for="start">Start Date:</label>

<input type="date" id="start"></input><br><br>

<label for="end">End Date:</label>

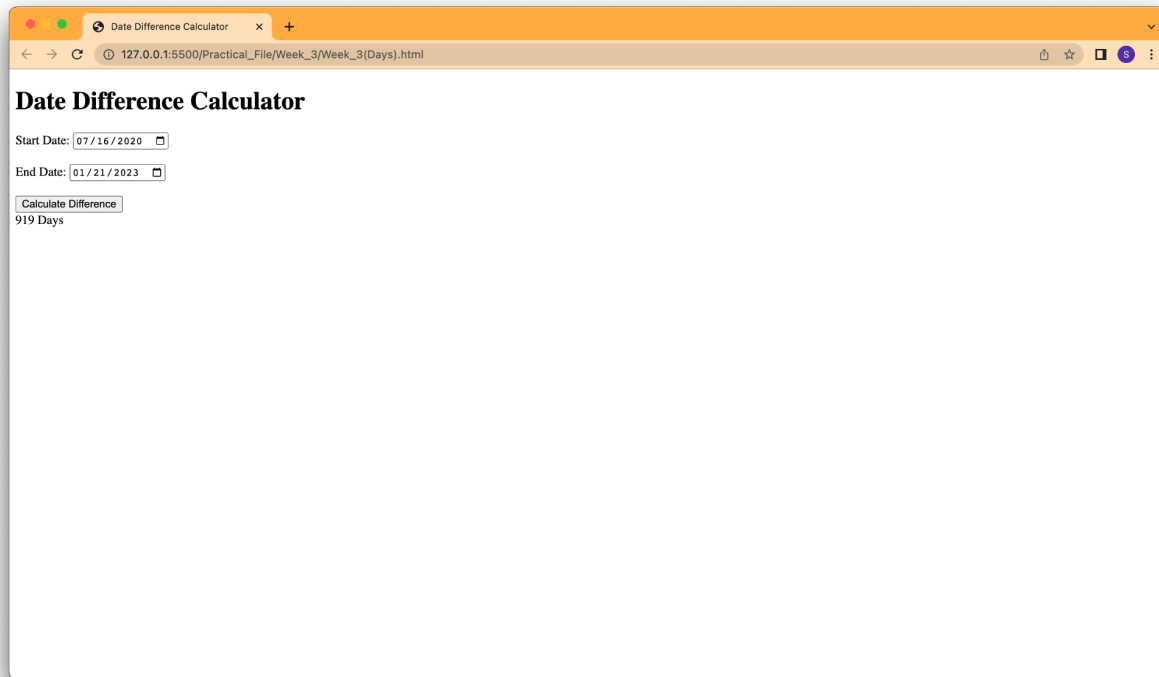
<input type="date" id="end"></input><br><br>

<button onclick="calculateDifference()">Calculate Difference</button>

<div id="difference"></div>

</body>

</html>
```


Output:**Conclusion:**

From this practical, I have learned how to use different library functions and manipulate the data to get the output. Also I have learned string and its uses in javascript.

Course Outcome:

This Course is helpful for basic knowledge of web technologies. I will learn how to make the web interactive, responsive and user friendly. Also I will learn how to code logic using Javascript.