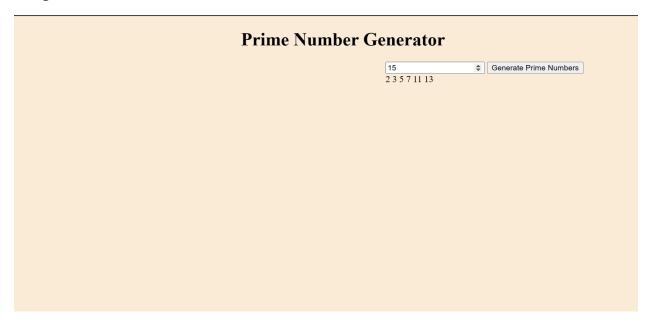
# Practical - 3

**Aim:** Generating the Prime Numbers

### **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 (\text{var } j = 2; j \leftarrow \text{Math.sqrt}(i); j++) {
                     if (i % j == 0) {
                         isPrime = false;
                         break;
                if (isPrime) {
                    primes += i + " ";
            document.getElementById("primes").innerHTML = primes;
    </script>
    <style>
        body {
            background-color: antiquewhite;
        #div {
            position: relative;
            left: 638px;
            right: 100px;
        #primes {
```



# Write Script to reverse the given input string

#### HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>String Reverser</title>
</head>
<body>
    <script src="reversestr.js"></script>
</body>
<h1 align="center">String Reverser</h1>
   <h3 align="center">Vyas Priyank Id-21IT177</h3>
    <div id="div">
        <input type="text" id="input"></input>
        <button onclick="reverseString()">Reverse String</button>
    </div>
    <div id="reversed"></div>
</html>
```

#### CSS:

### JAVASCRIPT:

```
function reverseString() {
    var input = document.getElementById("input").value;
    var reversed = input.split("").reverse().join("");
    document.getElementById("reversed").innerHTML = reversed;
}
```

### **Output:**



# **Create Dynamic Multiplication Table using inputs**

### HTML

```
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>
       #td {
           border: 2px solid black;
           padding: 5px;
       }
       /* #tab {
           color: aquamarine;
           border-style: solid dashed black;
           position: center;
           padding: 5px;
       body {
           background-color: antiquewhite;
   </style>
</head>
<body>
   <h1>Multiplication Table</h1>
   <h3>Vyas Priyank(21IT177)</h3>
   <label for="rows">Number of Rows:</label>
```

### **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);
```

3.

# **Multiplication Table**

# Vyas Priyank (21IT177)

Number of Rows: 5

Number of Columns: 5

# Generate Table

000 0 0 0

012 3 4 5

024 6 8 10

0 3 6 9 12 15

0 4 8 12 16 20

0 5 10 15 20 25

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

### **HTML**

```
<!DOCTYPE html>
<html>
<head>
    <title>Age Calculator</title>
    <style>
        body {
            margin: 0;
            padding: 0;
            /* color: antiquewhite; */
            background-color: antiquewhite;
        strong {
            position: center;
            color: rgb(248, 116, 191);
            border-style: groove;
            border-color: black
        #button {
            color: black !important;
            background-color: azure;
        #align {
            position: relative;
            left: 500px;
            right: 100px;
```

```
#age {
           position: relative;
           left: 500px;
           right: 100px;
   </style>
   <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 + " Months, " + days + " Days";
           document.getElementById("age").innerHTML = age;
   </script>
</head>
<body>
   <h3 align="center">Vyas Priyank (Id-21IT177)</h3>
   <h1 align="center">Age Calculator</h1>
   <div id="align">
       <strong>
           <label for="input">Enter your birthdate (YYYY-MM-DD):</label>
       </strong>
       <input id="input" type="text" id="input"></input>
       <button id="button" onclick="calculateAge()">Calculate Age</button>
   </div>
   <div id="age"></div>
</body>
</html>
```

```
Vyas Priyank (Id-21IT177)

Age Calculator

Enter your birthdate (YYYY-MM-DD): 2003 09 26 Calculate Age 19 Yrs, 4 Months, 0 Days
```

# Find the No. of Days between two given dates

### **HTML**

```
<!DOCTYPE html>
<html>
   <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>
   <style>
       body {
            background-color: antiquewhite;
        #div {
            position: relative;
            left: 500px;
            right: 100px;
   </style>
 /head>
```

# **Date Difference Calculator**

**Vyas Priyank Id-21IT177** 

Start Date: dd-mm-yyyy 🖃

End Date: dd-mm-yyyy 🖃

Calculate Difference

### **Conclusion:**

- JavaScript is an advanced programming language that makes web pages more interactive and dynamic.
- HTML is a standard markup language that provides the primary structure of a website
- JavaScript simply adds dynamic content to websites to make them look good.

### **Course Outcome:**

- If we do well in this unit, we should be able to: Insert a **dynamic** web page.
- We Can Perform any mathematical operation in webpage using javascript.
- Here We Create calculator and temperature converter.