

#### SCTR's PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE - 411043

#### DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

Lab Practice -2 [404184C] : ELECTIVE-III(C) - JavaScript							
ACADEMIC YEAR: 2024-25							
CLASS	: BE	DIV	:7	Batch	: R-7	DATE	:
Roll No	42315	ABC ID	: 187-311-403-781			SEMESTER	: I

### **Experiment No.: 2**

## HTML →

#### 1. Using for loop

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Multiplication Table Generator using for loop</title>
 k rel="stylesheet" href="style_2.css">
</head>
<body>
 <div class="container">
  <h1>Multiplication Table Generator Using For Loop</h1>
  <label for="numberInput">Enter a number: </label>
  <input type="number" id="numberInput" placeholder="Enter number">
  <button onclick="generateTableUsingForLoop()">Generate Table</button>
  <div id="tableResult"></div>
  <div class="info">
   <h2>Name: Tanmay Deo</h2>
   <h3>Roll Number: 42315</h3>
  </div>
 </div>
```

```
<script src="script_2.js"></script>
   </body>
   </html>
   2. Using while loop
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Multiplication Table Generator using while loop</title>
 <link rel="stylesheet" href="style_2.css">
</head>
<body>
 <div class="container">
  <h1>Multiplication Table Generator Using While Loop</h1>
  <label for="numberInput">Enter a number: </label>
  <input type="number" id="numberInput" placeholder="Enter number">
  <button onclick="generateTableUsingWhileLoop()">Generate Table</button>
  <div id="tableResult"></div>
  <div class="info">
   <h2>Name: Tanmay Deo</h2>
   <h3>Roll Number: 42315</h3>
  </div>
 </div>
 <script src="script_2.js"></script>
</body>
</html>
```

#### 3. Using do-while loop

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Multiplication Table Generator using do-while loop</title>
 <link rel="stylesheet" href="style_2.css">
</head>
<body>
 <div class="container">
  <h1>Multiplication Table Generator Using Do-While Loop</h1>
  <label for="numberInput">Enter a number: </label>
  <input type="number" id="numberInput" placeholder="Enter number">
  <button onclick="generateTableUsingDoWhileLoop()">Generate Table</button>
  <div id="tableResult"></div>
  <div class="info">
   <h2>Name: Tanmay Deo</h2>
   <h3>Roll Number: 42315</h3>
  </div>
 </div>
 <script src="script_2.js"></script>
</body>
</html>
```

```
CSS →
body {
 font-family: Arial, sans-serif;
 background-color: #f0f8ff;
 display: flex;
 justify-content: center;
 align-items: center;
 height: 100vh;
 margin: 0;
.container {
 background-color: white;
 padding: 20px;
 border-radius: 8px;
 box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.1);
 text-align: center;
input {
 display: block;
 margin: 10px auto;
 padding: 10px;
 border: 1px solid #ccc;
 border-radius: 4px;
```

```
button {
 padding: 10px 20px;
 margin-top: 10px;
 background-color: #4caf50;
 color: white;
 border: none;
 border-radius: 4px;
 cursor: pointer;
button:hover {
 background-color: #45a049;
}
h1 {
 color: #333;
#tableResult {
 margin-top: 20px;
 color: #333;
 background-color: #e0f7fa;
 padding: 10px;
 border-radius: 4px;
}
```

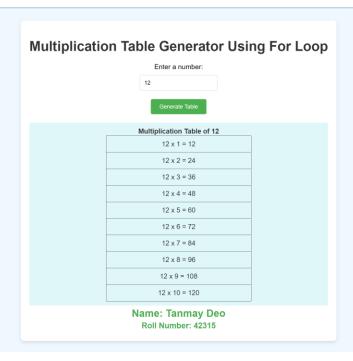
```
table {
 margin: 0 auto;
 border-collapse: collapse;
 width: 50%;
}
td {
 border: 1px solid #333;
 padding: 10px;
 text-align: center;
}
h2,
h3 {
 margin: 5px;
 color: #4caf50;
```

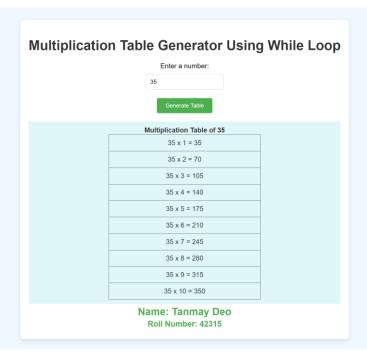
# JavaScript →

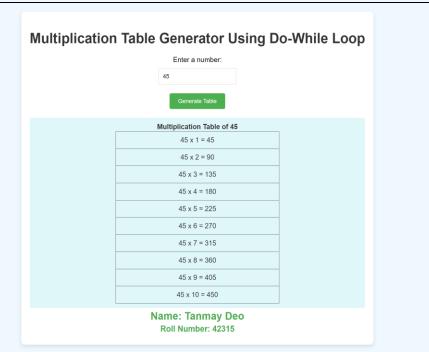
```
function generateTableUsingForLoop() {
   let number = parseInt(document.getElementById("numberInput").value)
   if (isNaN(number)) {
       document.getElementById("tableResult").innerHTML =
           "Please enter a valid number.";
       return;
   let tableHTML = `Multiplication Table of ${number}`;
   for (let i = 1; i \le 10; i++) {
       tableHTML += \t = \t  \{number \} x \{i\} = \{number * i\}  (tr > \t : (tr > \t 
   tableHTML += "";
   document.getElementById("tableResult").innerHTML = tableHTML;
}
function generateTableUsingWhileLoop() {
   let number = parseFloat(document.getElementById("numberInput").value);
   if (isNaN(number)) {
       document.getElementById("tableResult").innerHTML =
           "Please enter a valid number.";
       return;
   let tableHTML = `Multiplication Table of ${number}`;
   let i = 1;
   while (i <= 10) {
       tableHTML += <tr><{number} x {i} = {number * i} </td>`;
      i++;
```

```
tableHTML += "";
 document.getElementById("tableResult").innerHTML = tableHTML;
}
function generateTableUsingDoWhileLoop() {
 let number = parseFloat(document.getElementById("numberInput").value);
 if (isNaN(number)) {
  document.getElementById("tableResult").innerHTML =
   "Please enter a valid number.";
  return;
 let tableHTML = `Multiplication Table of ${number}`;
 let i = 1;
 do {
  tableHTML += <tr><{number} x {i} = {number * i} </td>`;
 i++;
 \} while (i <= 10);
 tableHTML += "";
 document.getElementById("tableResult").innerHTML = tableHTML;
```

# Output →







Date: