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<b>Subject : Javascript</b>	<b>Date :</b>

## Experiment 2: Generate the multiplication table of a given number using JavaScript.

### CODE:

#### 1. HTML (index.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>Experiment 2</title>
  <link rel="stylesheet" href="style.css" />
</head>
<body>
  <h2>Title : To generate a Multiplication Table of a given number</h2>
  <div class="forloop">
    <h3>Using "FOR LOOP"</h3>
    <label for="numfor">Enter a number : </label>
    <input
      type="number"
      id="numfor"
      min="0"
      placeholder="Enter a value"
    /><br /><br />
    <button onclick="multiplyfor()">Calculate</button>
    <p>Multiplication Table: <br /><span id="displayfor"></span></p>
  </div>
  <div class="whileloop">
    <h3>Using "WHILE LOOP"</h3>
    <label for="numwhile">Enter a number : </label>
    <input
      type="number"
      id="numwhile"
      min="0"
      placeholder="Enter a value"
    /><br /><br />
    <button onclick="multiplywhile()">Calculate</button>
    <p>Multiplication Table: <br /><span id="displaywhile"></span></p>
  </div>
  <div class="dowhileloop">
    <h3>Using "DO-WHILE LOOP"</h3>
    <label for="numdowhile">Enter a number : </label>
    <input
      type="number"
      id="numdowhile"
      min="0"
      placeholder="Enter a value"
    /><br /><br />
    <button onclick="multiplydowhile()">Calculate</button>
    <p>
      Multiplication Table: <br />
      <span id="displaydowhile"></span>
    </p>
  </div>

```

```
<script src="script.js"></script>
</body>
</html>
```

## 2. JS (calculate.js)

```
function multiplyfor() {
    var n = document.getElementById('numfor').value;
    var out = "";
    for (var i = 1; i < 11; i++) {
        out = out + i + " * " + n + " = " + i * n + "<br/>";
    }
    document.getElementById("displayfor").innerHTML = out;
}
function multiplywhile() {
    var n = document.getElementById('numwhile').value;
    var i = 1;
    var out = "";
    while (i<11) {
        out = out + i + " * " + n + " = " + i * n + "<br/>";
        i++;
    }
    document.getElementById("displaywhile").innerHTML = out;
}
function multiplydowhile() {
    var n = document.getElementById('numdowhile').value;
    var i = 1;
    var out = "";
    do{
        out = out + i + " * " + n + " = " + i * n + "<br/>";
        i++;
    }while (i<11)
    document.getElementById("displaydowhile").innerHTML = out;
}
```