Roll no: 42411	Name: Aditi Daberao
Division: BE 8	Batch: P8

Practical No : 2 **To generate a Multiplication Table of a given number**

Code:

1.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>

</head>

<body style="text-align :center;">

<h2>Expt 2 : To generate a Multiplication Table of a given number</h2>

<h3>Aditi Daberao </h3>

<h4>Roll No: 42411</h4>

<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>
```

```
<button onclick="ResetF()">Reset</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>

<button onclick="ResetW()">Reset</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>

<button onclick="ResetD()">Reset</button>

<p>Multiplication Table: <br> <span id="displaydowhile"></span></p>

</div>

<script src="table_logic.js"></script>

</body>

</html>
```

2. **JS**

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

Output:

Expt 2 : To generate a Multiplication Table of a given number

Aditi Daberao

Roll No: 42411

Using "FOR LOOP"

Enter a number : 5

Calculate Reset

Multiplication Table:
5 X 1 = 5
5 X 2 = 10
5 X 3 = 15
5 X 4 = 20
5 X 5 = 25
5 X 6 = 30
5 X 7 = 35
5 X 8 = 40
5 X 9 = 45
5 X 10 = 50

Using "WHILE LOOP"

Enter a number : 10

Calculate Reset

Multiplication Table:
10 X 1 = 10
10 X 2 = 20
10 X 3 = 30
10 X 4 = 40
10 X 5 = 50
10 X 6 = 60
10 X 7 = 70
10 X 8 = 80
10 X 9 = 90
10 X 10 = 100

Using "DO-WHILE LOOP"

Enter a number : 15

Calculate Reset

Multiplication Table:
15 X 1 = 15
15 X 2 = 30
15 X 3 = 45
15 X 4 = 60
15 X 5 = 75
15 X 6 = 90
15 X 7 = 105
15 X 8 = 120
15 X 9 = 135
15 X 10 = 150