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//EXP-2

index.html

```
<!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</title>

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

</head>

<body>

    <h1>Multiplication Table Generator</h1>

    <label for="number">Enter a number:</label>

    <input type="number" id="number" placeholder="Enter a number">

    <button onclick="generateTableForLoop()">Generate Table (For
Loop)</button>

    <button onclick="generateTableWhileLoop()">Generate Table (While
Loop)</button>

    <h2>Generated Table:</h2>

    <pre id="tableResult"></pre>

</body>

</html>
```

script.js

```
function generateTableForLoop() {

    let number = parseInt(document.getElementById('number').value);

    let result = '';

    if (isNaN(number) || number <= 0) {

        document.getElementById('tableResult').textContent = "Please enter a
valid positive number.";

        return;

    }

}
```

```

for (let i = 1; i <= 10; i++) {
    result += `${number} x ${i} = ${number * i}\n`;
}

document.getElementById('tableResult').textContent = result;
}

function generateTableWhileLoop() {
    let number = parseInt(document.getElementById('number').value);
    let result = '';
    let i = 1;
    if (isNaN(number) || number <= 0) {
        document.getElementById('tableResult').textContent = "Please enter a valid positive number.";
        return;
    }
    while (i <= 10) {
        result += `${number} x ${i} = ${number * i}\n`;
        i++;
    }
    document.getElementById('tableResult').textContent = result;
}

```

OUTPUT:



Multiplication Table Generator

Enter a number:

Generated Table:

```

9 x 1 = 9
9 x 2 = 18
9 x 3 = 27
9 x 4 = 36
9 x 5 = 45
9 x 6 = 54
9 x 7 = 63
9 x 8 = 72
9 x 9 = 81
9 x 10 = 90

```