



PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE - 411043
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGG.
ACADEMIC YEAR : 2023-24 SEM: 1

CLASS : BE VII [S7]

SUBJECT : JavaScript

EXPT. NO.: 2

Roll No.: 42372

DATE:

CODE :

```
<!DOCTYPE html>
<html>
<head>
  <title>Multiplication Table</title>
  <script src="assignment_2.js"></script>
</head>
<body>
  <h2>Multiplication Table</h2>
  <label for="number">Enter a number: </label>
  <input type="number" id="numberInput">
  <button onclick="displayMultiplicationTable()">Generate Table</button>

  <h3>Using for loop:</h3>
  <div id="forLoopTable"></div>

  <h3>Using while loop:</h3>
  <div id="whileLoopTable"></div>

  <h3>Using do-while loop:</h3>
  <div id="doWhileLoopTable"></div>
</body>
</html>
```

 JAVAS_SCRIPT CODE

```
function displayMultiplicationTable() {
  const number = parseInt(document.getElementById("numberInput").value);

  // Using for loop
  let forLoopTableHTML = "<table>";
  for (let i = 1; i <= 10; i++) {
    forLoopTableHTML +=
`<tr><td>${number}</td><td>*</td><td>${i}</td><td>=</td><td>${number * i}</td></tr>`;
  }
  forLoopTableHTML += "</table>";
  document.getElementById("forLoopTable").innerHTML = forLoopTableHTML;

  // Using while loop
  let whileLoopTableHTML = "<table>";
  let j = 1;
  while (j <= 10) {
    whileLoopTableHTML +=
```



```
`<tr><td>${number}</td><td>*</td><td>${j}</td><td>=</td><td>${number * j}</td></tr>`;
    j++;
}
whileLoopTableHTML += "</table>";
document.getElementById("whileLoopTable").innerHTML = whileLoopTableHTML;

// Using do-while loop
let doWhileLoopTableHTML = "<table>";
let k = 1;
do {
    doWhileLoopTableHTML +=
`<tr><td>${number}</td><td>*</td><td>${k}</td><td>=</td><td>${number * k}</td></tr>`;
    k++;
} while (k <= 10);
doWhileLoopTableHTML += "</table>";
document.getElementById("doWhileLoopTable").innerHTML = doWhileLoopTableHTML;
}
```



OUTPUT :

Multiplication Table

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Using for loop:

Enter a number:

4 * 1 = 4
4 * 2 = 8
4 * 3 = 12
4 * 4 = 16
4 * 5 = 20
4 * 6 = 24
4 * 7 = 28
4 * 8 = 32
4 * 9 = 36
4 * 10 = 40

Using while loop:

Enter a number:

5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
5 * 6 = 30
5 * 7 = 35
5 * 8 = 40
5 * 9 = 45
5 * 10 = 50

Using do-while loop:

Enter a number:

6 * 1 = 6
6 * 2 = 12
6 * 3 = 18
6 * 4 = 24
6 * 5 = 30
6 * 6 = 36
6 * 7 = 42
6 * 8 = 48
6 * 9 = 54
6 * 10 = 60