Lab Practice -2 [404184C] : ELECTIVE-III(C) - JavaScript

ACADEMIC YEAR: 2024-25

CLASS	: BE	DIV	: 7	Batch	: R-7	DATE	:
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Experiment No.: 10

JS ➜

```
const prompt = require("prompt-sync")();

const num = prompt("Enter a number to print its multiplication table: ");

console.log(`\nMultiplication Table of ${num} using For Loop:`);

for (let i = 1; i <= 10; i++) {

  console.log(`${num} x ${i} = ${num * i}`);

}

console.log(`\nMultiplication Table of ${num} using While Loop:`);

let j = 1;

while (j <= 10) {

  console.log(`${num} x ${j} = ${num * j}`);

  j++;

}

console.log(`\nMultiplication Table of ${num} using Do-While Loop:`);

let k = 1;

do {

  console.log(`${num} x ${k} = ${num * k}`);

  k++;

} while (k <= 10);
```

Output ➔

```
File  Edit  Selection  View  Go  Run  Terminal  Help                                    ⌕ expt10

EXPLORER                    ··· ⟩< Welcome  ×    JS script_10.js  ×
∨ OPEN EDITORS                     JS script_10.js > ...
      ⟩< Welcome                4      // The third argument (index 2) will be the number provided by the user
   ×  JS script_10.js            5      const num = parseInt(args[2]);
∨ EXPT10                         6
   > node_modules                7      if (isNaN(num)) {
   {} package-lock.json          8        console.log("Please provide a valid number as an argument.");
   {} package.json               9        process.exit(1); // Exit if the argument is not a number
   JS script_10.js              10      }
   JS test.js                   11
                                12      // For loop implementation
                                13      console.log(`\nMultiplication Table of ${num} using For Loop:`);
                                14      for (let i = 1; i <= 10; i++) {
                                15        console.log(`${num} x ${i} = ${num * i}`);
                                16      }
                                17      |
                                18      // While loop implementation
                                19      console.log(`\nMultiplication Table of ${num} using While Loop:`);
                                20      let j = 1;
                                21      while (j <= 10) {
                                22        console.log(`${num} x ${j} = ${num * j}`);
                                23        j++;
                                24      }
                                25
                                26      // Do-while loop implementation
                                27      console.log(`\nMultiplication Table of ${num} using Do-While Loop:`);
                                28      let k = 1;
                                29      do {
                                30        console.log(`${num} x ${k} = ${num * k}`);
                                31        k++;
                                32      } while (k <= 10);
                                33
```

```
C:\Users\Tina\OneDrive\Desktop\JAVASCRIPT EXPERIMENTS\expt10>cd "C:\Users\Tina\OneDrive\Desktop\JAVASCRIPT EXPERIMENTS\expt10"

C:\Users\Tina\OneDrive\Desktop\JAVASCRIPT EXPERIMENTS\expt10>node script_10.js 5

Multiplication Table of 5 using For Loop:
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

Multiplication Table of 5 using While Loop:
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

Multiplication Table of 5 using Do-While Loop:
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
```

Date: Course Teacher Sign