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

ACADEMIC YEAR: 2024-25

CLASS	: BE	DIV	: 6	Batch	: P6	DATE	: / /24
Roll No	42130	ABC ID	:			SEMESTER	: I

Experiment No.:

Code:

JS

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

// Function to print multiplication table using a for loop
function forLoopTable(num) {
    console.log(`Multiplication Table of ${num} (using For loop):`);
    for (let i = 1; i <= 10; i++) {
        console.log(`${num} x ${i} = ${num * i}`);
    }
}

// Function to print multiplication table using a while loop
function whileLoopTable(num) {
    console.log(`\nMultiplication Table of ${num} (using While loop):`);
    let i = 1;
    while (i <= 10) {
        console.log(`${num} x ${i} = ${num * i}`);
        i++;
    }
}

// Function to print multiplication table using a do-while loop
function doWhileLoopTable(num) {
    console.log(`\nMultiplication Table of ${num} (using Do-While loop):`);
    let i = 1;
    do {
        console.log(`${num} x ${i} = ${num * i}`);
        i++;
    } while (i <= 10);
}

// Prompt user for a number
let number = prompt("Enter a number to print its multiplication table: ");

// Validate input to ensure it's a number
if (!isNaN(number) && number.trim() !== "") {
    number = parseInt(number);
    forLoopTable(number);
```

```
    whileLoopTable(number);
    doWhileLoopTable(number);
} else {
    console.log("Please enter a valid number.");
}
```

Output:

```
C:\Users\Hp\OneDrive\Desktop\Javascript_College_Expt\Exp10>node exp10.js
Enter a number to print its multiplication table: 7
Multiplication Table of 7 (using For loop):
7 x 1 = 7
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 9 = 63
7 x 10 = 70

Multiplication Table of 7 (using While loop):
7 x 1 = 7
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 9 = 63
7 x 10 = 70

Multiplication Table of 7 (using Do-While loop):
7 x 1 = 7
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 9 = 63
7 x 10 = 70
```

Date: Course Teacher Sign