MIT-ADT UNIVERSITY
PUNE, INDIA
A leap towards World Class Education

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Assignment : 03
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Subject : WTL

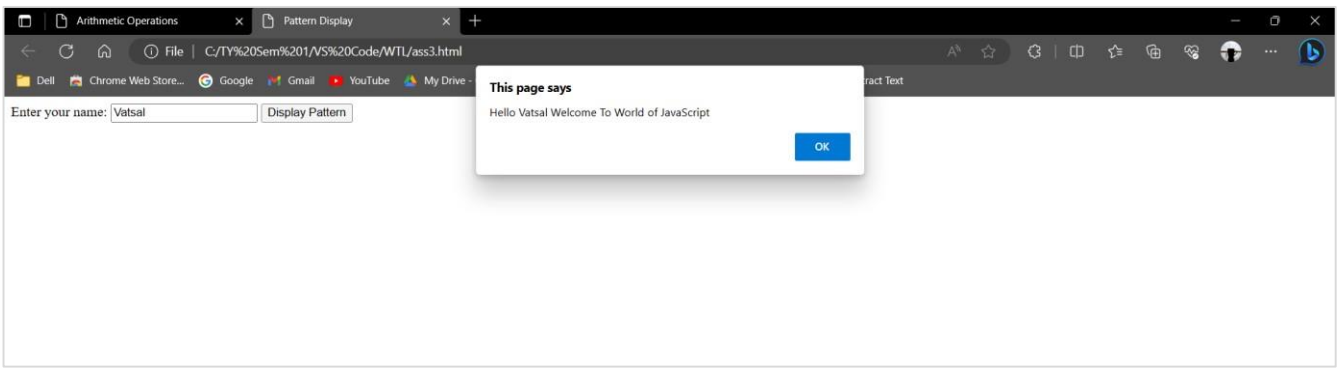
Assignment 3

a] Write a JavaScript code to take inputs from user and display that inputs in following pattern
“Hello ..... Welcome To World of JavaScript”.
b] Write a JavaScript code to perform arithmetic operation by taking values from users (Add, Sub, Mul, Div)(1. 4 Button, 2.Dropdown)

a) Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Pattern Display</title>
</head>
<body>
  <label for="name">Enter your name:</label>
  <input type="text" id="name">
  <button onclick="displayPattern()">Display Pattern</button>

  <script>
    function displayPattern() {
      const name = document.getElementById('name').value;
      const pattern = `Hello ${name} Welcome To World of JavaScript`;
      alert(pattern);
    }
  </script>
</body>
</html>
```

a) OUTPUT:

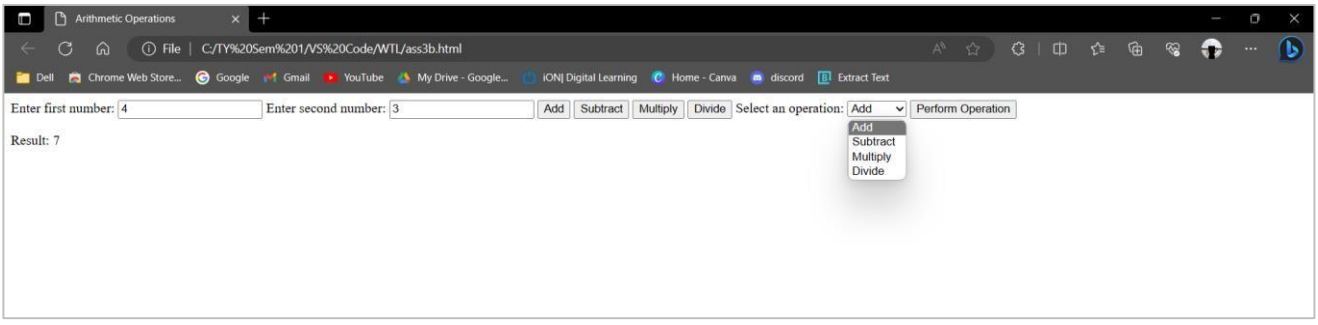


b) Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Arithmetic Operations</title>
</head>
<body>
  <label for="num1">Enter first number:</label>
  <input type="number" id="num1">
  <label for="num2">Enter second number:</label>
  <input type="number" id="num2">

  <button onclick="add()">Add</button>
  <button onclick="subtract()">Subtract</button>
  <button onclick="multiply()">Multiply</button>
  <button onclick="divide()">Divide</button>

  <label for="operation">Select an operation:</label>
  <select id="operation">
    <option value="add">Add</option>
    <option value="subtract">Subtract</option>
    <option value="multiply">Multiply</option>
    <option value="divide">Divide</option>
  </select>
  <button onclick="performOperation()">Perform Operation</button>

  <p id="result"></p>

  <script>
    function add() {
      const num1 = parseFloat(document.getElementById('num1').value);
      const num2 = parseFloat(document.getElementById('num2').value);
      document.getElementById('result').textContent = `Result: ${num1 + num2}`;
    }

    function subtract() {
      const num1 = parseFloat(document.getElementById('num1').value);
      const num2 = parseFloat(document.getElementById('num2').value);
      document.getElementById('result').textContent = `Result: ${num1 - num2}`;
    }

    function multiply() {
      const num1 = parseFloat(document.getElementById('num1').value);
      const num2 = parseFloat(document.getElementById('num2').value);
      document.getElementById('result').textContent = `Result: ${num1 * num2}`;
    }

    function divide() {
      const num1 = parseFloat(document.getElementById('num1').value);
      const num2 = parseFloat(document.getElementById('num2').value);
      document.getElementById('result').textContent = `Result: ${num1 / num2}`;
    }
```

```
function performOperation() {
      const selectedOperation = document.getElementById('operation').value;
      if (selectedOperation === 'add') {
        add();
      } else if (selectedOperation === 'subtract') {
        subtract();
      } else if (selectedOperation === 'multiply') {
        multiply();
      } else if (selectedOperation === 'divide') {
        divide();
      }
    }
  </script>
</body>
</html>
```

b) OUTPUT:



CONCLUSION :

We successfully created two JavaScript programs. The first one takes user input, and upon clicking a button, displays a personalized message in a specific pattern. The second program allows users to perform arithmetic operations using either buttons or a dropdown menu, displaying the results accordingly. These examples demonstrate basic DOM manipulation, event handling, and math operations in JavaScript. JavaScript's flexibility makes it ideal for building interactive web applications.