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Roll No: 242466

Practical No: 3

Date Of Performance: 31/07/2025

Aim:

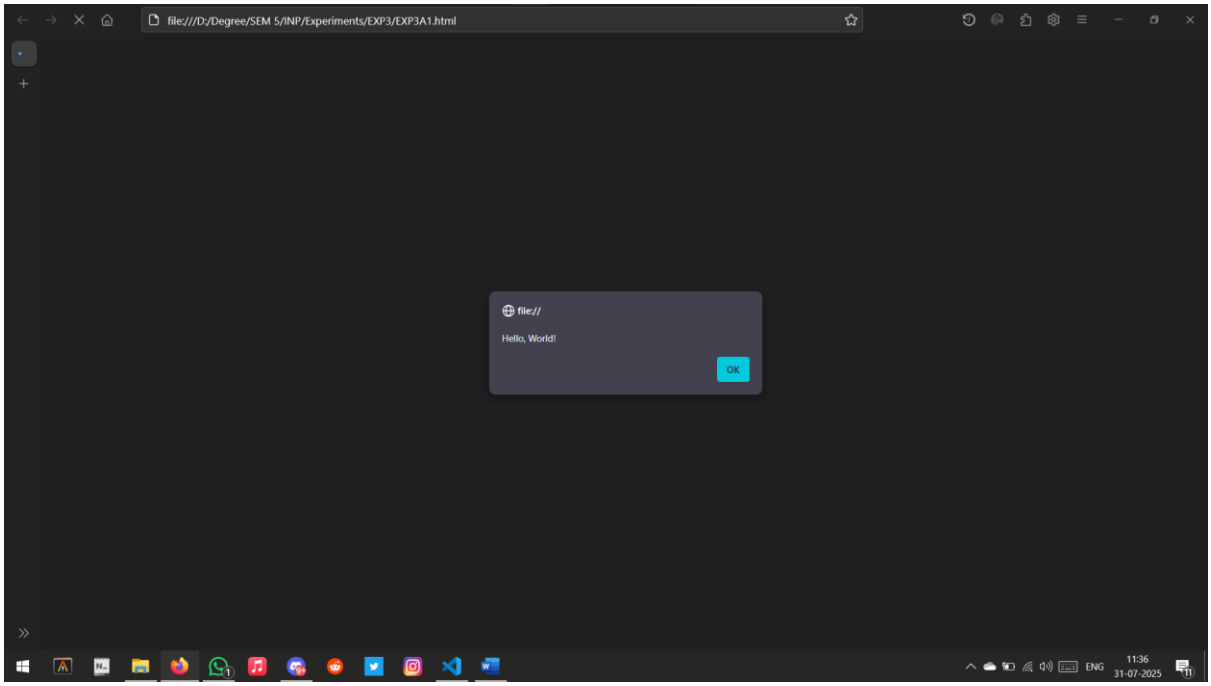
THEORY:

Q) Implement hello world example in java script. Run on browser and console using node

CODE (Browser):

```
<!DOCTYPE html>
<html>
    <head>
        <title>Hello World</title>
    </head>
    <body>
        <h1>Hello, World!</h1>
        <script>
            console.log("Hello, World! (from Firefox)");
            alert("Hello, World!");
        </script>
    </body>
</html>
```

OUTPUT:



CODE (Console):

```
console.log("Hello, World! (from Node)");
```

OUTPUT:

```
Abdurrahman Qureshi@DESKTOP-H2RV5MQ MINGW64 /d/Degree/SEM 5/INP/Experiments/EXP3 (master)
$ node EXP3A2.js
Hello, World! (from Node)
```

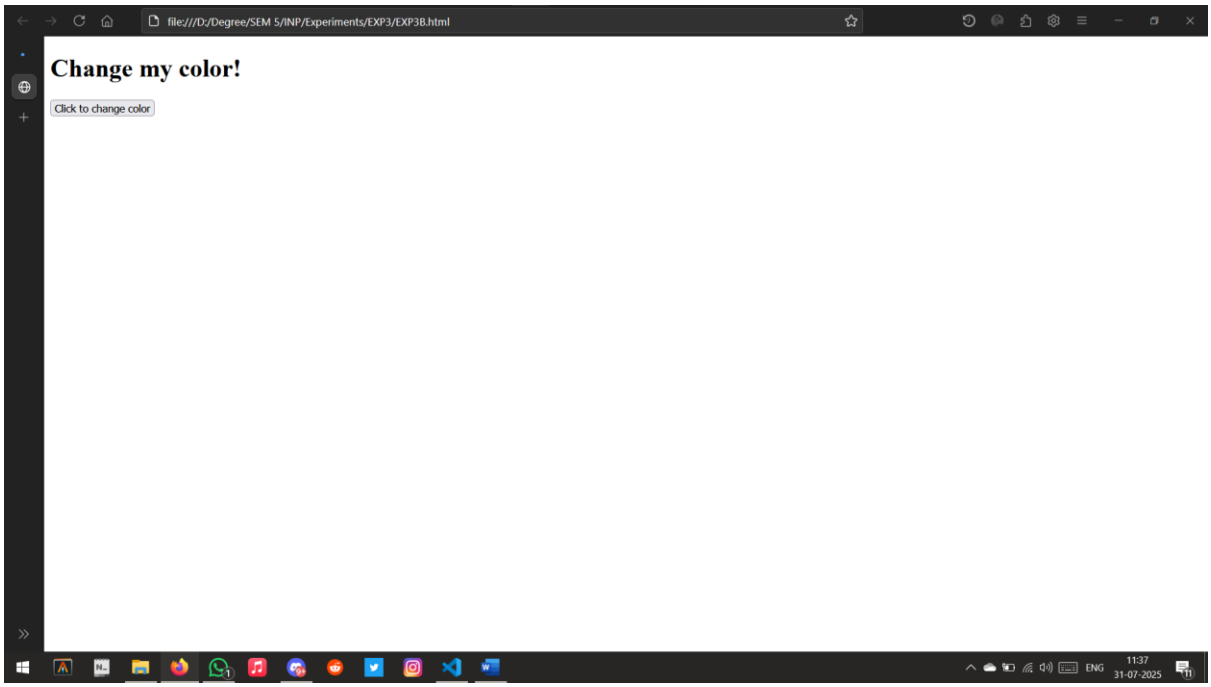
Q) Implement DOM manipulation for change in color of text to red

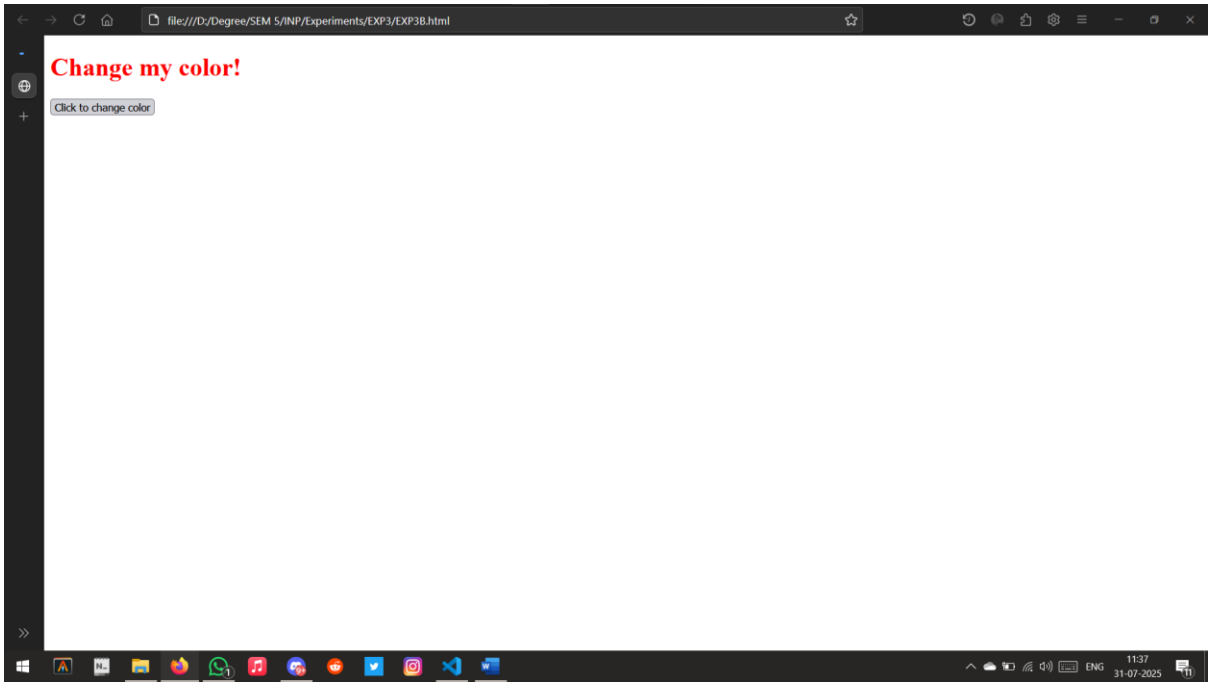
CODE:

```
<!DOCTYPE html>
<html>
    <head>
        <title>Change to Red</title>
    </head>
    <body>
        <h1 id="text">Change my color!</h1>
```

```
        <button onclick="changeColor()">Click to change color</button>
        <script>
            const changeColor = () => {
                const heading = document.getElementById("text");
                heading.style.color = "red";
            };
        </script>
    </body>
</html>
```

OUTPUT:





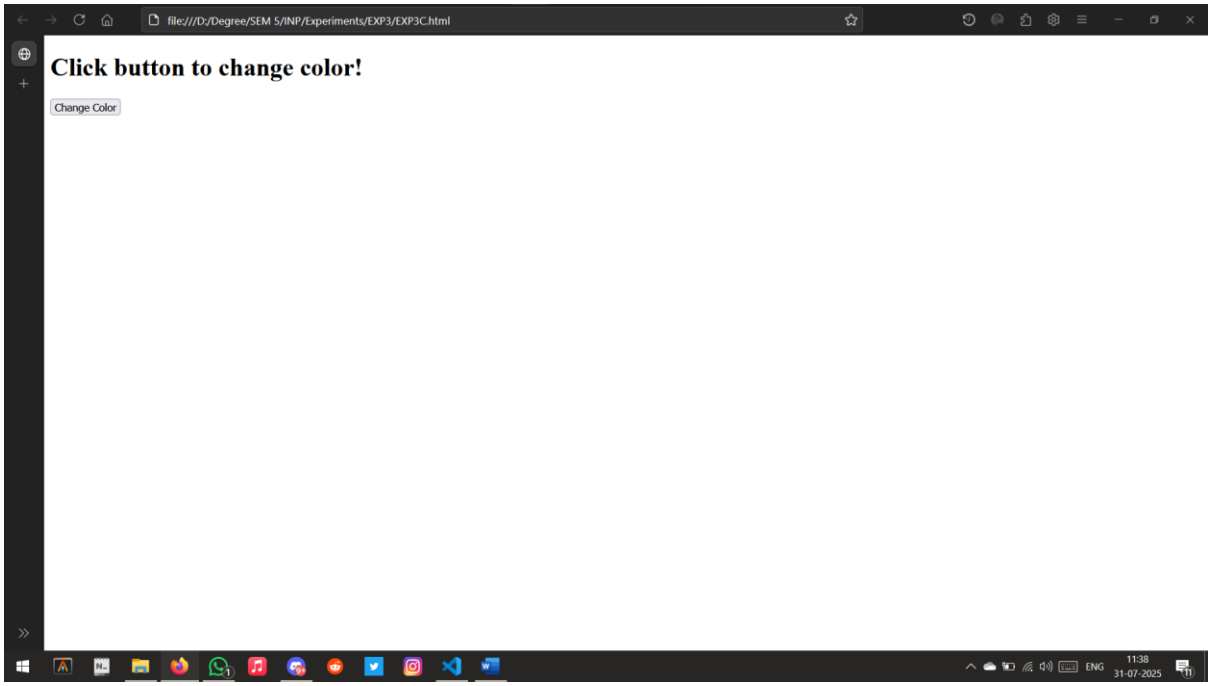
Q) Implement above using charge in different colors by clicking button using Java script

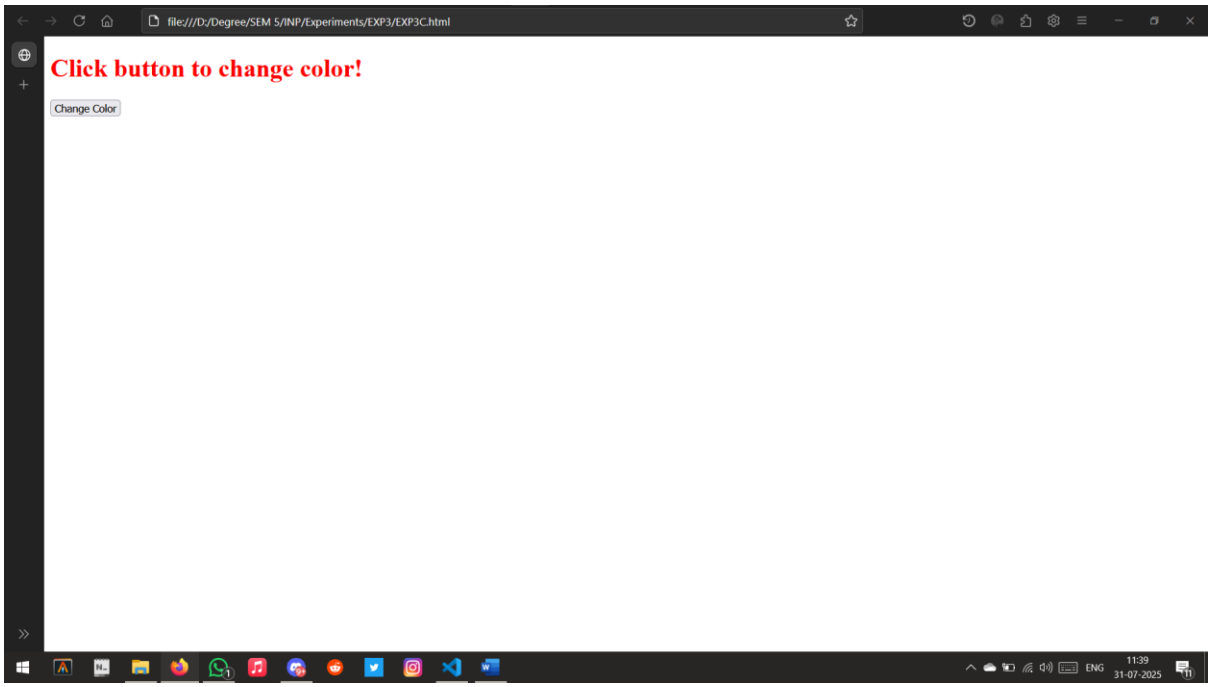
CODE:

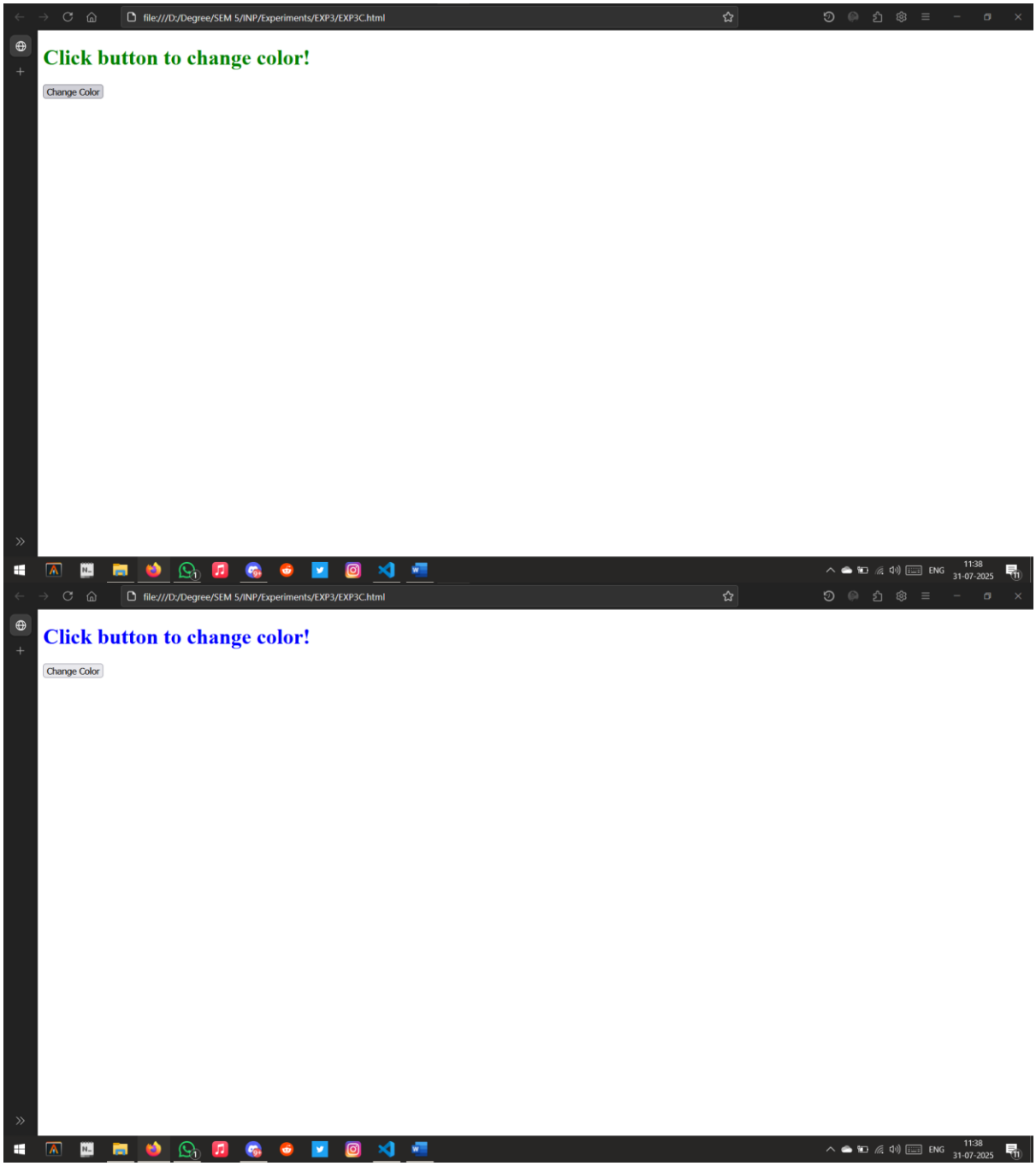
```
<!DOCTYPE html>
<html>
    <head>
        <title>Color Changer</title>
    </head>
    <body>
        <h1 id="text">Click button to change color!</h1>
        <button onclick="changeColor()">Change Color</button>

        <script>
            const colors = ["red", "green", "blue", "orange", "purple"];
            let index = 0;

            function changeColor() {
                const text = document.getElementById("text");
                text.style.color = colors[index];
                index = (index + 1) % colors.length;
            }
```

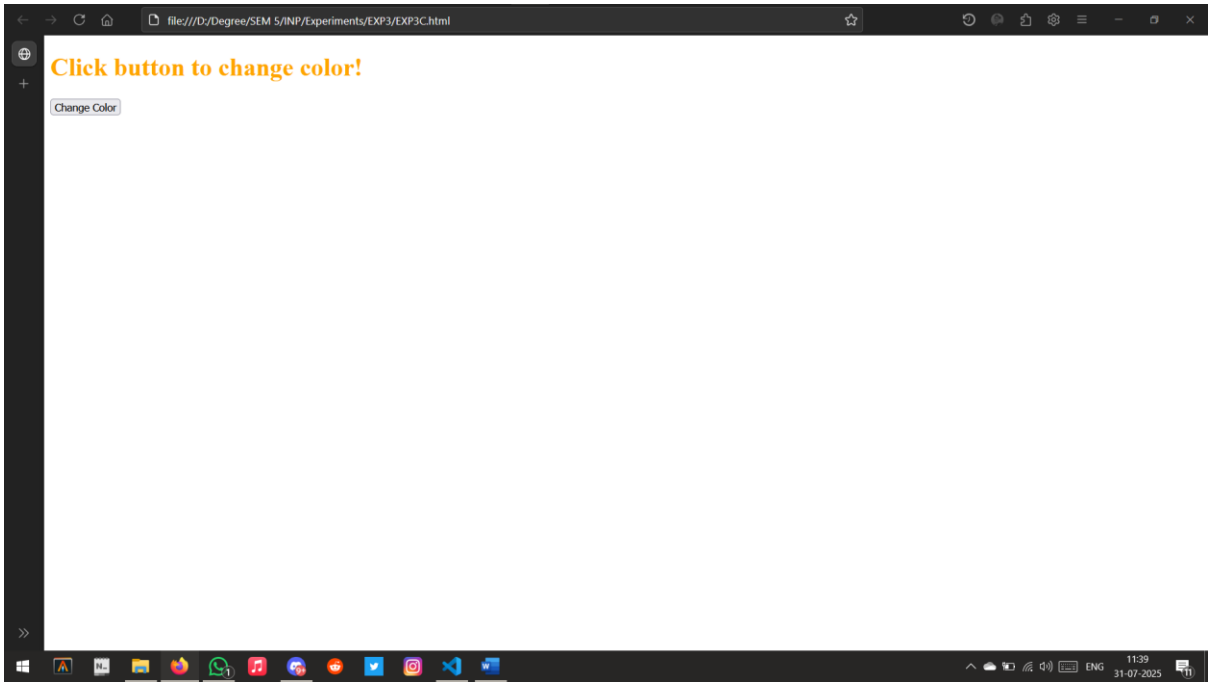
```
        </script>
    </body>
</html>
```

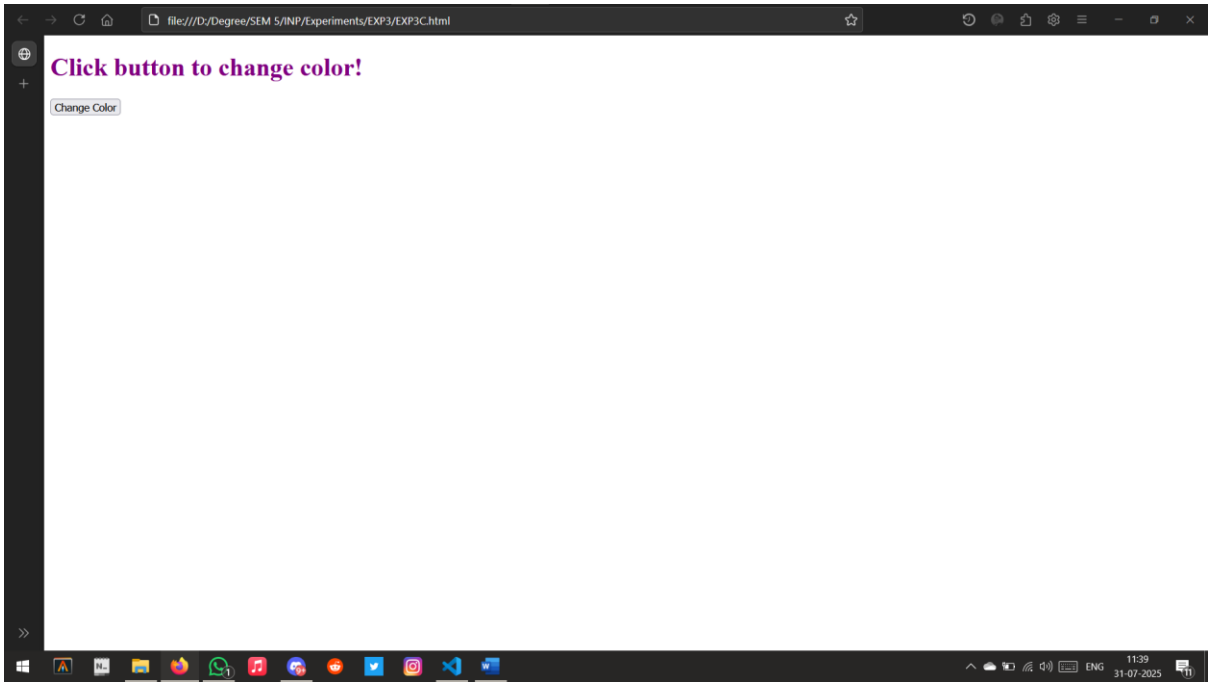
OUTPUT:






file:///D:/Degree/SEM 5/INP/Experiments/EXP3/EXP3C.html
Click button to change color!
Change Color
ENG
11:38
31-07-2025
file:///D:/Degree/SEM 5/INP/Experiments/EXP3/EXP3C.html
Click button to change color!
Change Color
ENG
11:38
31-07-2025





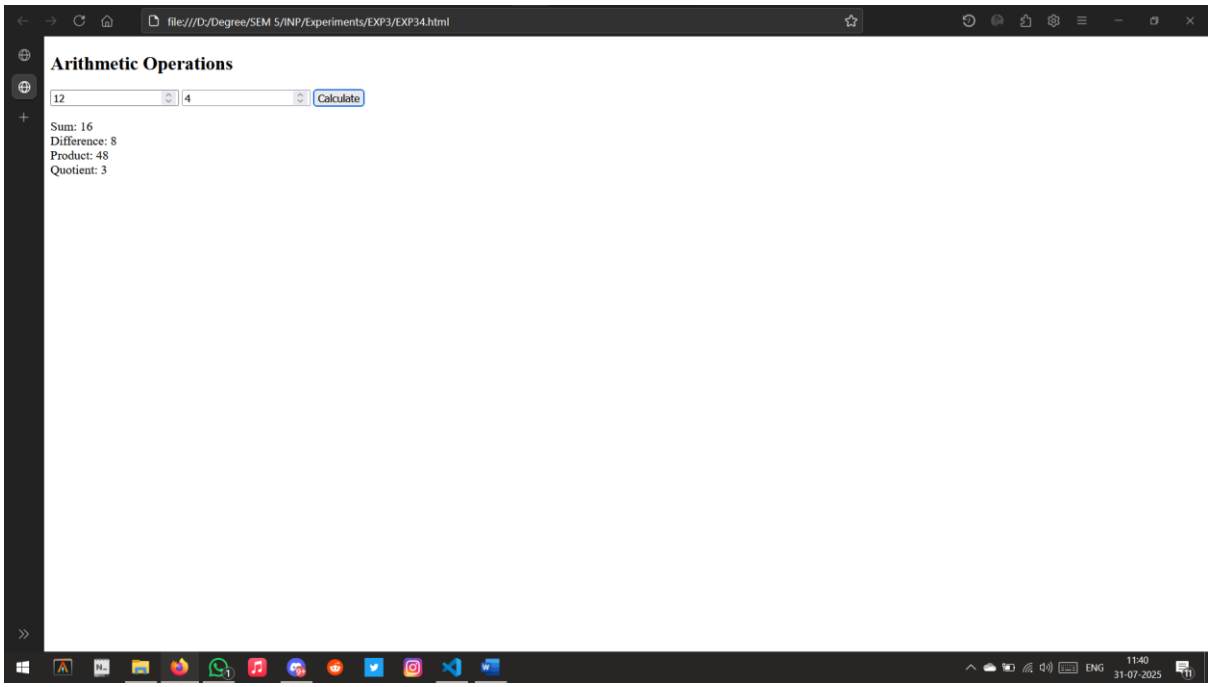
Q) Implement arithmetic operations using Java script both on browser and console

CODE (Browser):

```
<!DOCTYPE html>
<html>
    <head>
```

```
        <title>Arithmetic</title>
    </head>
    <body>
        <h2>Arithmetic Operations</h2>
        <input id="num1" type="number" placeholder="Enter number 1" />
        <input id="num2" type="number" placeholder="Enter number 2" />
        <button onclick="calculate()">Calculate</button>
        <p id="result"></p>
        <script>
            function calculate() {
                const n1 = parseFloat(document.getElementById("num1").value);
                const n2 = parseFloat(document.getElementById("num2").value);
                const result = `
        Sum: ${n1 + n2} <br>
        Difference: ${n1 - n2} <br>
        Product: ${n1 * n2} <br>
        Quotient: ${n1 / n2}
      `;
                document.getElementById("result").innerHTML = result;
            }
        </script>
    </body>
</html>
```

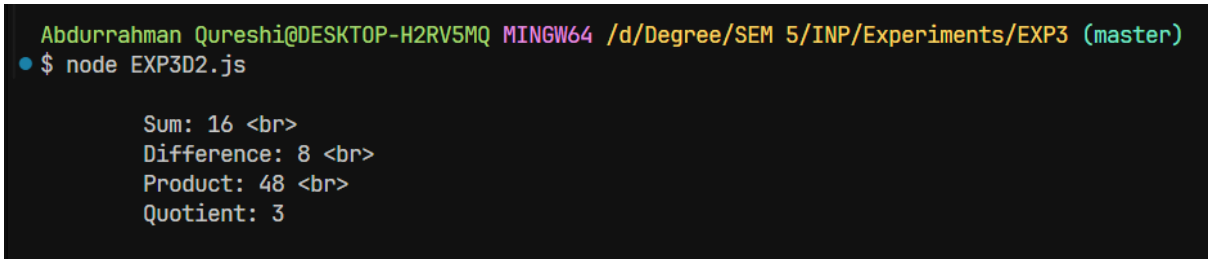
OUTPUT:



CODE (Console):

```
function calculate() {
    const n1 = 12;
    const n2 = 4;
    const result = `
        Sum: ${n1 + n2} <br>
        Difference: ${n1 - n2} <br>
        Product: ${n1 * n2} <br>
        Quotient: ${n1 / n2}
      `;
    console.log(result);
}

calculate();
```

OUTPUT:



CONCLUSION: