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Practical No: 3

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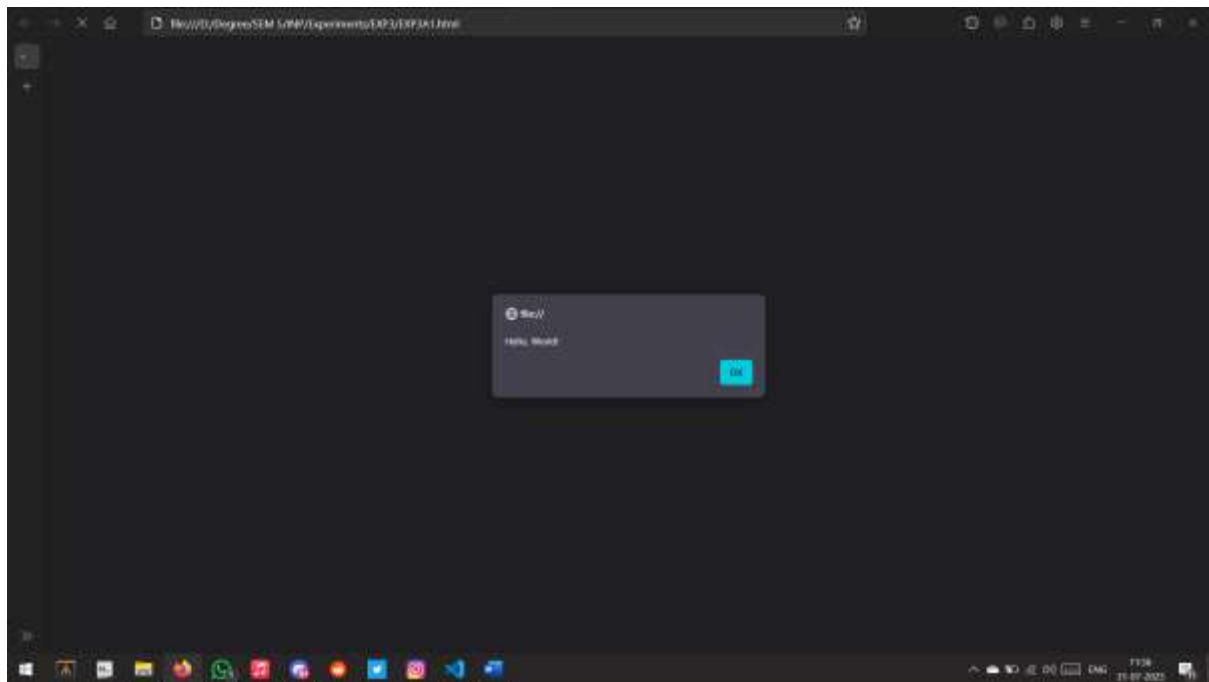
Aim: Implementation of Frontend Web Application
Development Bootstrap.

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:

```
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$ node EXP3A2.js
Hello, World! (from Node)
```

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

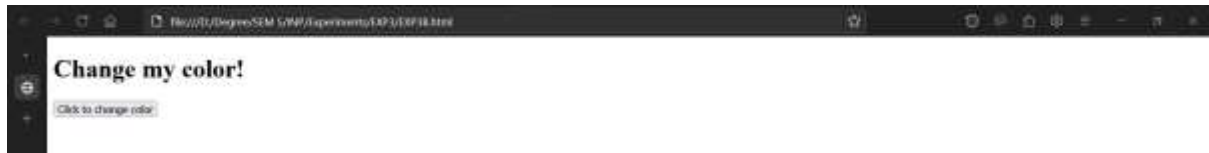
CODE:

```
<!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>
```

```
};  
</script>
```

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

OUTPUT:



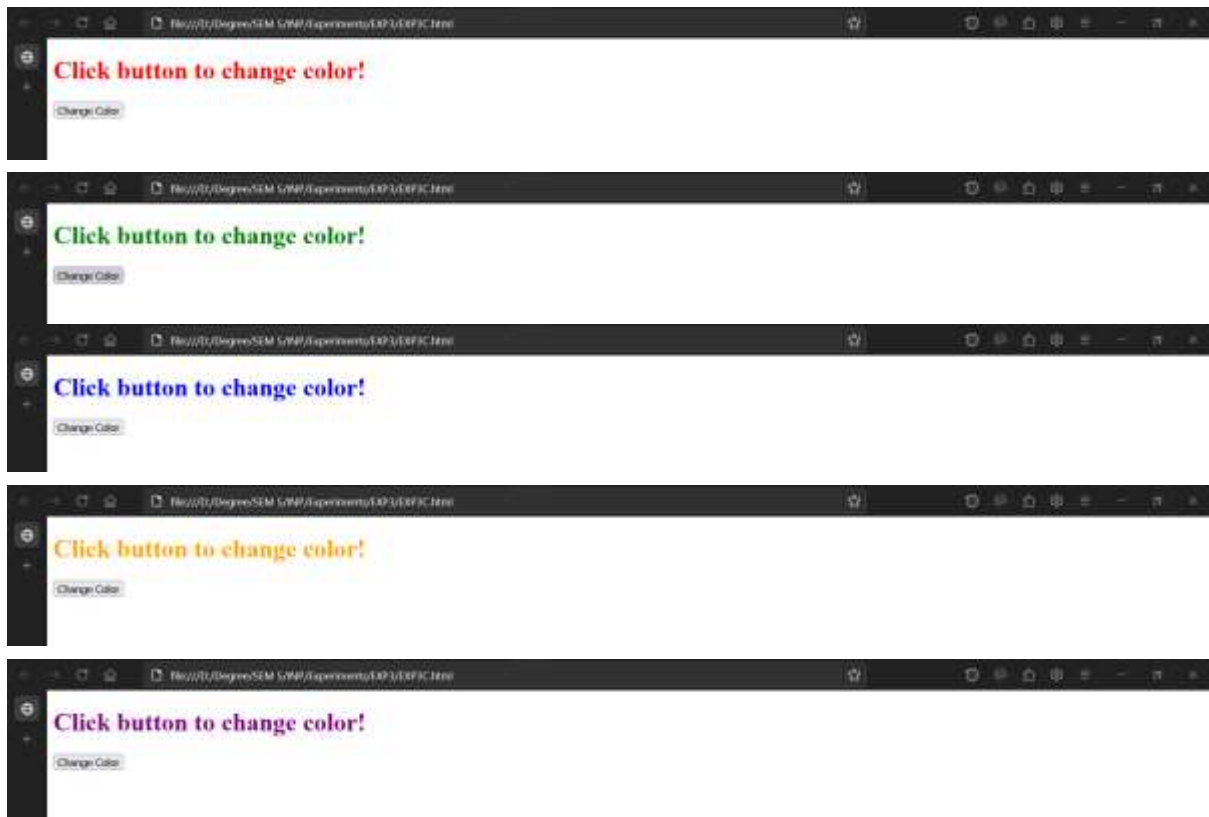
Q) Implement above using change in different colors by clicking button using Java script

CODE:

```
<!DOCTYPE html>                                     let index = 0;  
<html>                                                  
  <head>                                              function changeColor() {  
    <title>Color Changer</title>                      const text =  
  </head>      document.getElementById("text");  
  <body>      text.style.color =  
    <h1 id="text">Click button to change color!</h1> colors[index];  
    <button index = (index + 1) %  
      onclick="changeColor()">Change colors.length;  
      Color</button>      }  
                        </script>  
                        </body>  
                        </html>  
  <script>  
    const colors = ["red", "green",  
"blue", "orange", "purple"];
```

OUTPUT:





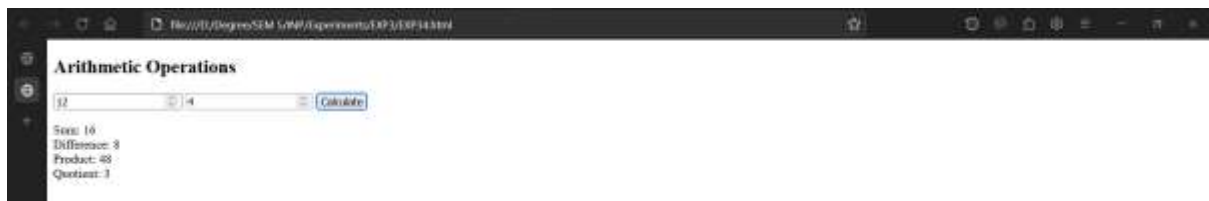
Q) Implement arithmetic operations using Java script both on browser and console

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("re
sult").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:

```
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$ node EXP3D2.js  
  
Sum: 16 <br>  
Difference: 8 <br>  
Product: 48 <br>  
Quotient: 3
```