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Practical No: 3

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Aim: Implementation of Frontend Web Application

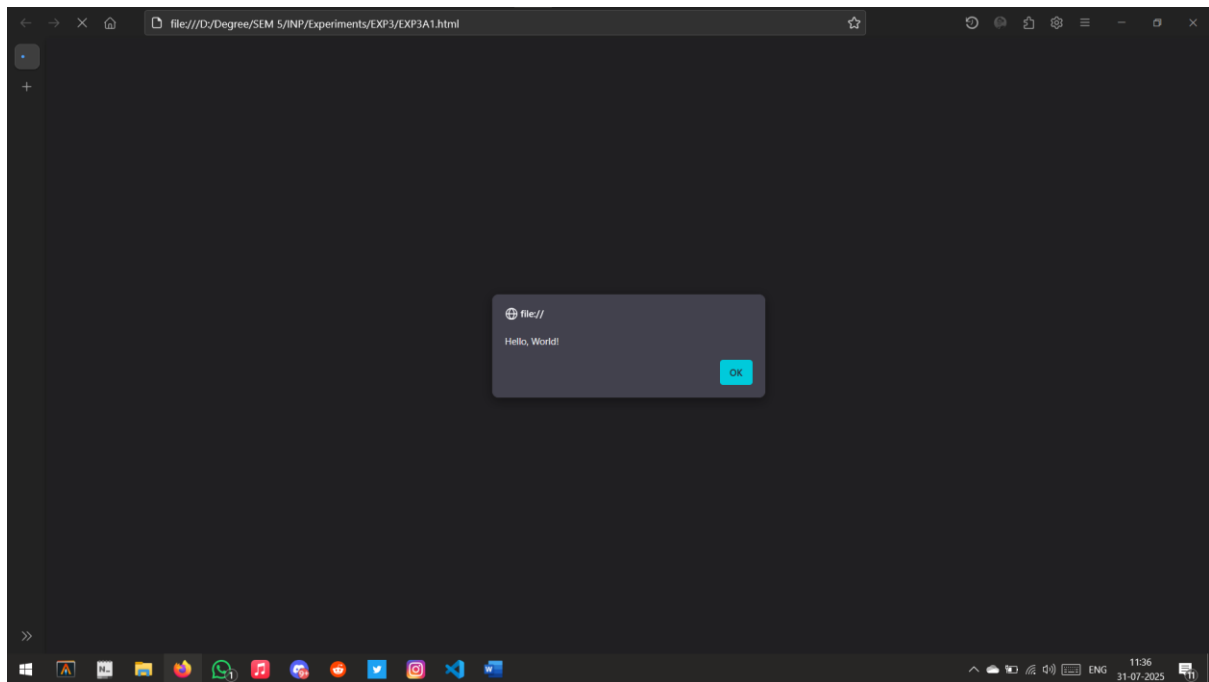
Development Bootstrap.

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:

```
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:

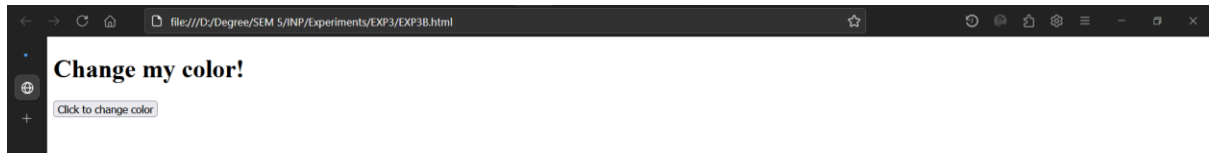
```
<!DOCTYPE html>
<html>
  <head>
    <title>Change to Red</title>
  </head>
  <body>
    <h1 id="text">Change my color!</h1>
```

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

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

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

OUTPUT:



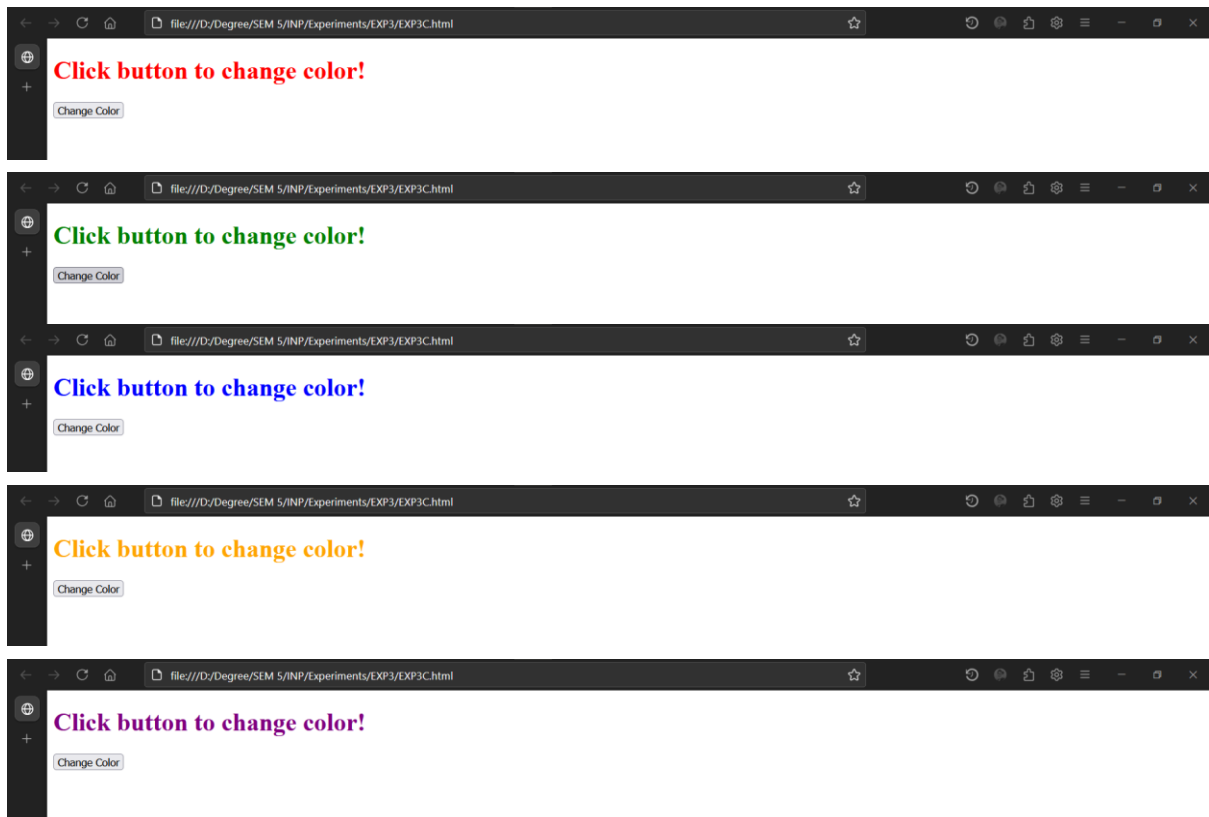
Q) Implement above using change in different colors by clicking button using Java script

CODE:

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

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:

