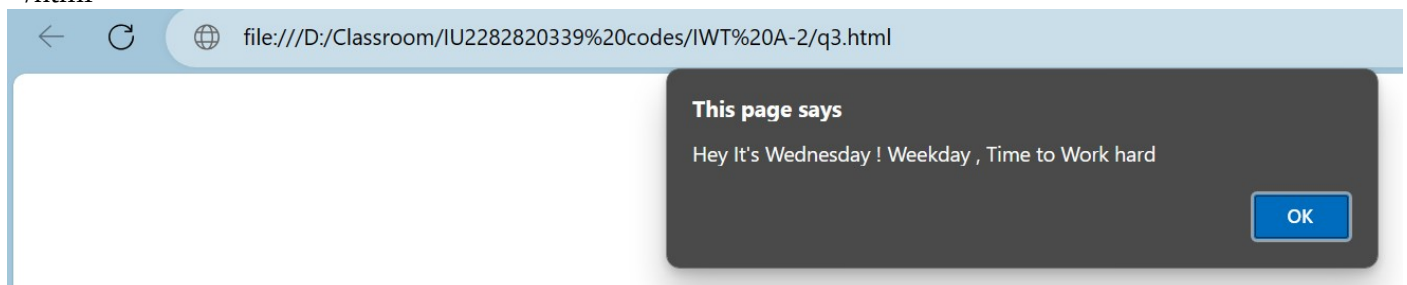


Practical Assignment – 2

Introduction to Web Technology

1. Create a Weekend Checker & display the message on web page accordingly
(Use Switch only)

```
<html lang="en">
<head> <title>Document</title></head>
<body> <script>
    var day = prompt("Enter the day number");
    var dayUpadte;
    switch (parseInt(day)) {
        case 1:
            dayUpadte = "Monday";
            break;
        case 2:
            dayUpadte = "Tuesday";
            break;
        case 3:
            dayUpadte = "Wednesday";
            break;
        case 4:
            dayUpadte = "Thursday";
            break;
        case 5:
            dayUpadte = "Friday";
            break;
        case 6:
            dayUpadte = "Saturday";
            break;
        case 7:
            dayUpadte = "Sunday";
            break;
        default:
            dayUpadte = "Invalid day"; // Handle invalid input.
            break;
    }
    var dayDefiner;
    if (day > 6) { dayDefiner = "Weekend , Time to have fun"; }
    else { dayDefiner = "Weekday , Time to Work hard" }
    alert("Hey It's " + dayUpadte + " !" + " " + dayDefiner);
</script>
</body>
</html>
```



2. Change the background color of your web page according to the button click

```
<html lang="en">
```

```
<head> <title>Document</title>
```

```
<script>
```

```
function changeColor(colorBtn) {  
    document.body.style.background = colorBtn;    }
```

```
function changeHead(colorBtn) {  
    document.getElementById("heading").style.color = colorBtn;    }
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<label for="">Select Background color: </label>
```

```
<div>
```

```
<button id="red" onclick="changeColor('red');">Red</button>
```

```
<button id="blue" onclick="changeColor('blue')">Blue</button>
```

```
<button id="green" onclick="changeColor('green')">Green</button>
```

```
<button id="yellow" onclick="changeColor('yellow')">Yellow</button>
```

```
<button id="purple" onclick="changeColor('purple')">Purple</button>
```

```
<button id="turquoise" onclick="changeColor('turquoise')">Turquoise</button>
```

```
<button id="gray" onclick="changeColor('gray')">Gray</button>
```

```
</div>
```

```
<hr>
```

```
<label for="">Select color for heading: </label>
```

```
<div>
```

```
<button type="button" ondblclick="changeHead('maroon')">Maroon</button>
```

```
<button type="button" ondblclick="changeHead('teal')">Teal</button>
```

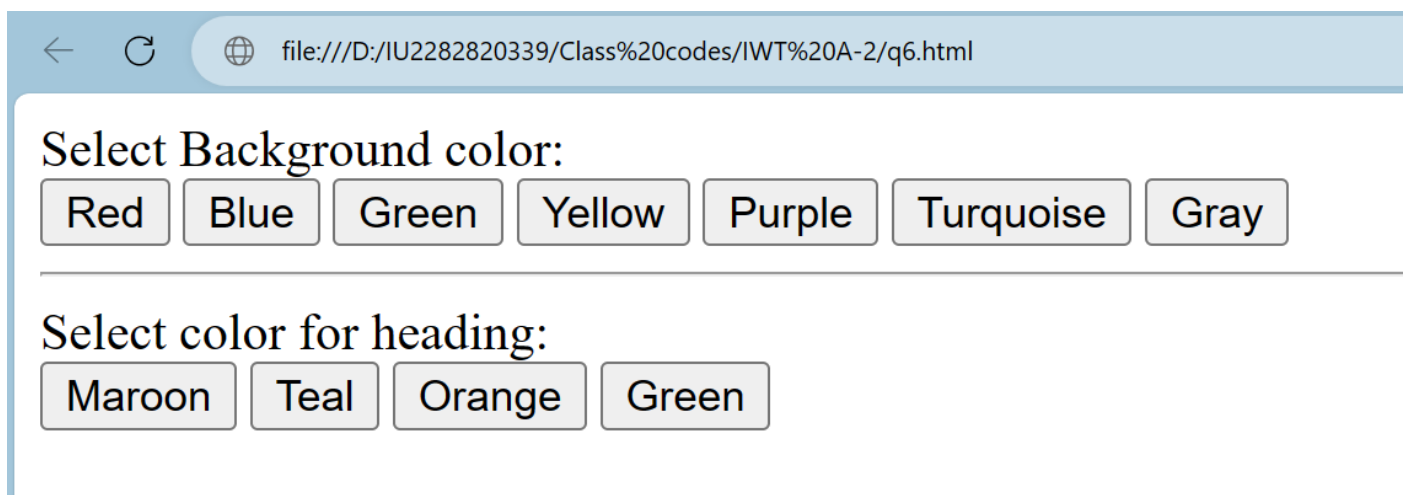
```
<button type="button" ondblclick="changeHead('orange')">Orange</button>
```

```
<button type="button" ondblclick="changeHead('green')">Green</button>
```

```
</div>
```

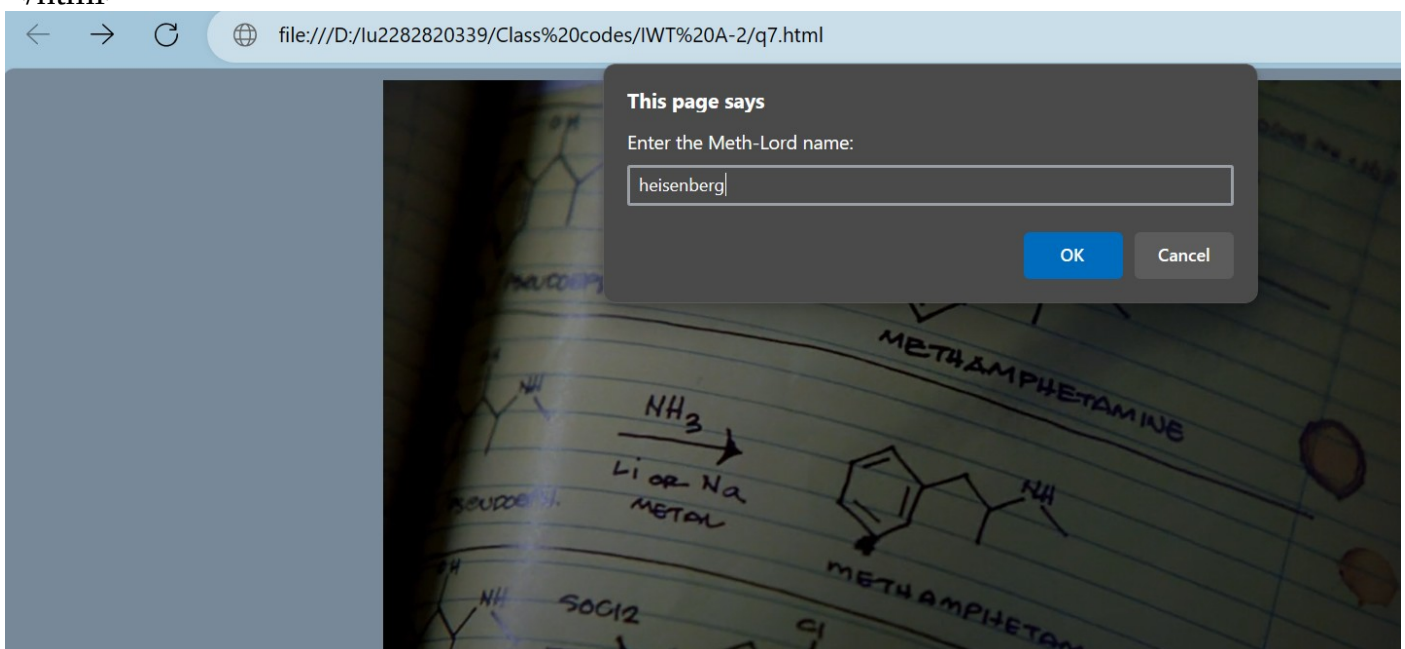
```
</body>
```

```
</html>
```



3. Display the image and on click of it provide password protected document.

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>q5</title>
  <style>
    img{
      height: 25rem;
    }
    body{
      background-color:lightslategray ;
    }
  </style>
  <script>
    function revelDocument() {
      const pass = prompt("Enter the Meth-Lord name:");
      if (pass === "heisenberg") {
        window.location.href = "meth-recipe.pdf";
      } else {
        alert("Disappointment");
      }
    }
  </script>
</head>
<body>
  <center></center>
</body>
</html>
```

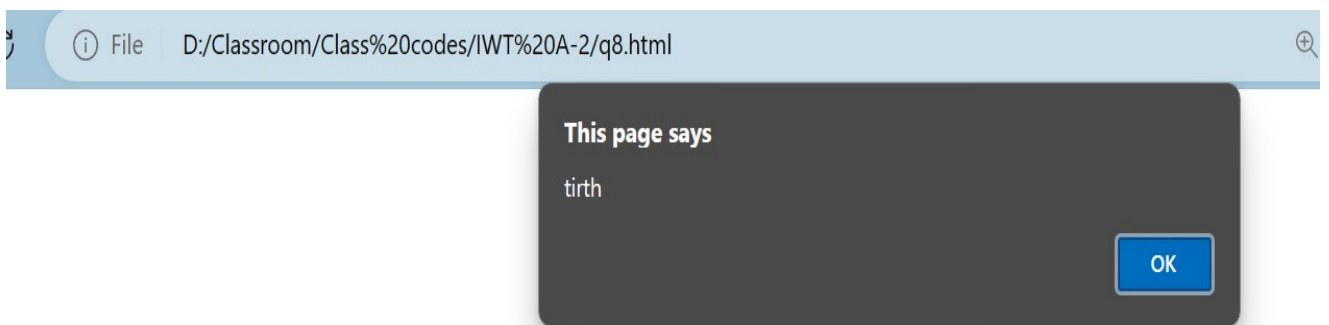


4. Get the username from prompt after 2 seconds display the name in msgbox after 4 seconds.

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <script>
    let name;

    setInterval(() => {
      name = prompt("Enter name :")
    }, 2000);
    setInterval(() => {
      alert(name);
    }, 4000);
  </script>
</head>
<body>

</body>
</html>
```



5. Write a JavaScript code block using arrays and generate the current Date in words, this should include the Day, the Month and the Year. O/P should be as: Monday, August 16, 2010

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <script>
    var weekdays=["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday",
"Saturday"];
    var monthYears=["January", "February", "March", "April", "May", "June", "July",
"August", "September", "October", "November", "December"];
    var presentDate = new Date();
    var day = weekdays[presentDate.getDay()]
    var month = monthYears[presentDate.getMonth()]
    var dayOfMonth = presentDate.getDate();
    var year = presentDate.getFullYear();
    alert(day + " " + month + " " + dayOfMonth + " " + year);
  </script>
</head>
<body>

</body>
</html>
```

← ↻ 🌐 file:///D:/lu2282820339/Class%20codes/IWT%20A-2/q9.html

This page says

Wednesday October 25 2023

OK

6. Write a code which checks the contents entered in a Form's Text element. If the text entered is in the Lowercase, convert to Upper case.

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Form</title>
  <script>
    document.addEventListener("DOMContentLoaded",function () {
      document.getElementById("submitBtn").addEventListener("click",function () {
        const stringGet = document.getElementById("name");
        const nameGet = stringGet.value;
        const upperCasing = nameGet.toUpperCase();
        document.getElementById("output").innerHTML = upperCasing;
      })
    })
  </script>
</head>
<body>
  <form>
    <table >
      <tr>
        <td><label for="name">Name: </label></td></td>
        <td><input type="text" name="name" id="name"></td></td>
      </tr>
      <tr>
        <td colspan="2" ><center><button type="button"
id="submitBtn">UpperCaseString</button></td>
      </tr>
    </table>
  </form>
  <label for="output">Output: </label>
  <p id="output"></p>
</body>
</html>
```

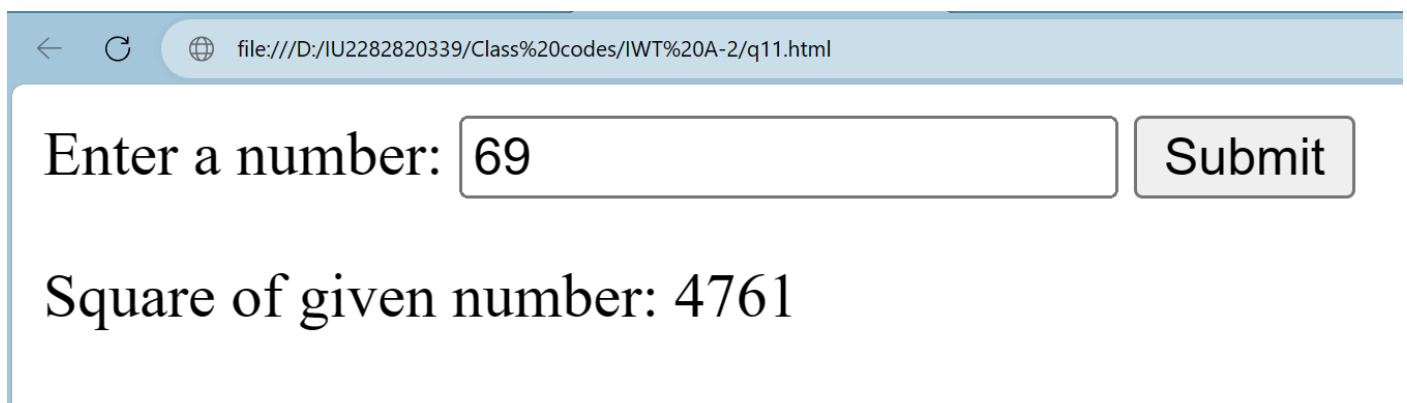
The screenshot shows a web browser window with the address bar displaying the file path: file:///D:/lu2282820339/Class%20codes/IWT%20A-2/q10.html. The browser content displays a form with the following elements:

- A label "Name:" followed by a text input field containing the text "mr tirth".
- A button labeled "UpperCaseString" positioned below the input field.
- A label "Output:" followed by a large text area displaying the result "MR TIRTH" in all capital letters.

7. Make a function that squares a number. Test it.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Square of Number</title>
  <script>
    function calculateSquare() {
      var num = parseFloat(document.getElementById("number").value);
      var result = squareOfNumber(num);
      document.getElementById("output").textContent = "Square of given number: " +
result;
    }

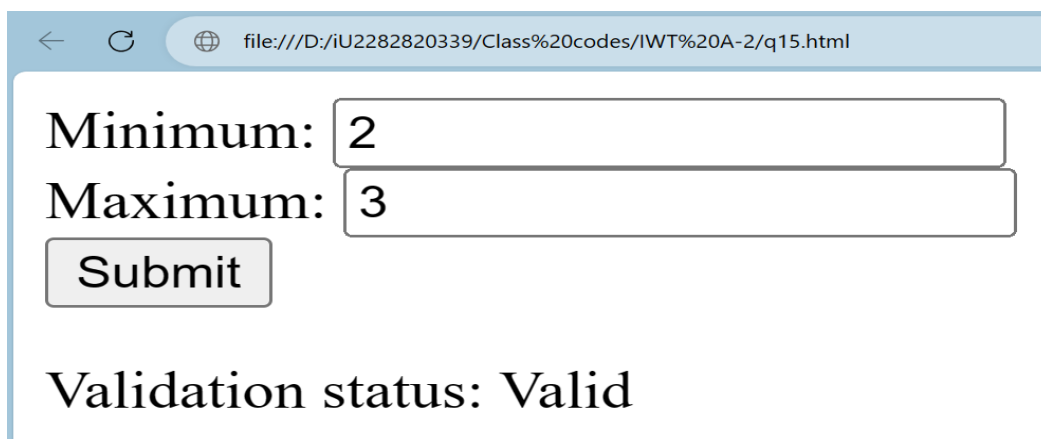
    function squareOfNumber(num) {
      return num * num;
    }
  </script>
</head>
<body>
  <form>
    <label for="number">Enter a number: </label>
    <input type="number" id="number">
    <button type="button" id="submitBtn" onclick="calculateSquare()">Submit</button>
  </form>
  <p id="output">Square of given number: </p>
</body>
</html>
```



The screenshot shows a web browser window with the address bar displaying the file path: file:///D:/IU2282820339/Class%20codes/IWT%20A-2/q11.html. The browser content displays a form with the text "Enter a number:" followed by a text input field containing the value "69". To the right of the input field is a button labeled "Submit". Below the form, the text "Square of given number: 4761" is displayed, indicating the result of the calculation (69 squared).

8. Create a Form in HTML with two fields, minimum and maximum, write JavaScript to validate that only numeric value is entered in both, and the value entered in minimum is less than the value entered in maximum.

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <script>
    document.addEventListener("DOMContentLoaded",function () {
      document.getElementById("submitBtn").addEventListener("click",function (error) {
        error.preventDefault(); // prevent form from submiitting
        var minimumNumber = parseFloat(document.getElementById("minNum").value);
        var maximumNumber = parseFloat(document.getElementById("maxNum").value);
        var display = document.getElementById("output");
        if (!isNaN(minimumNumber) && !isNaN(maximumNumber) && minimumNumber
< maximumNumber) {
          display.textContent = "Validation status: Valid";
        } else {
          display.textContent = "Validation status: Invalid";      }    })  })
    </script>
  </head>
  <body>
    <form action="">
      <label for="mini">Minimum: </label>
      <input type="number" name="minNum" id="minNum">
      <br>
      <label for="maxi">Maximum: </label>
      <input type="number" name="maxNum" id="maxNum">
      <br>
      <button id="submitBtn">Submit</button>
    </form>
    <p id="output">Validation status: </p>
  </body>
</html>
```



file:///D:/iU2282820339/Class%20codes/IWT%20A-2/q15.html

Minimum: 2






Maximum: 3

Submit

Validation status: Valid

9. Dynamically change the heading at the top of this page. Enter a new title in the Textbox and click the Change button

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>q25</title>
  <script>
    document.addEventListener("DOMContentLoaded",function () {
      function changeHeading() {
        const newTitle = document.getElementById("newTitle").value;
        const heading = document.getElementById("dynamicHeading");
        heading.innerText=newTitle;
      }
      const changeBtn = document.getElementById("changeBtn");
      changeBtn.addEventListener("click", changeHeading);
    })
  </script>
</head>
<body>
  <h1 id="dynamicHeading">Dynamic Deafault heading</h1>
  <label for="newTitle">Enter a new Title: </label>
  <input type="text" name="newTitle" id="newTitle">
  <button id="changeBtn" onclick="changeHeading()">Change</button>
</body>
</html>
```

   File | D:/Classroom/Class%20codes/IWT%20A-2/q25.html  

Mr Tirth

Enter a new Title:

10. Write a JavaScript to generate two random numbers and find out maximum and minimum out of it.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <p id="output1"></p>
  <p id="output2"></p>

  <script>
    const randomNum1 = Math.floor(Math.random() * 100);
    const randomNum2 = Math.floor(Math.random() * 100);
    const output1 = document.getElementById("output1");
    const output2 = document.getElementById("output2");

    output1.innerHTML = "Random Number 1: " + randomNum1;
    output2.innerHTML = "Random Number 2: " + randomNum2;

    if (randomNum1 < randomNum2) {
      alert("The maximum is: " + randomNum2 + "\nThe minimum is: " + randomNum1);
    } else if (randomNum1 > randomNum2) {
      alert("The maximum is: " + randomNum1 + "\nThe minimum is: " + randomNum2);
    } else {
      alert("Both numbers are equal: " + randomNum1);
    }
  </script>
</body>
</html>
```

