

EXPERIMENT NO – 1

Title: Create Web Page structure using HTML5.

.....

Program:

```
<!DOCTYPE html>
<html>
<head>
  <title>Resume</title>
</head>
<body>
  <h2 style="text-align:center"><b>PERSONAL INFORMATION </b></h2>
  <hr>Dhiraj Mahesh Minche<br>
    B.Tech in Data Science<br>
    dhirajminche18@gmail.com<br>
    Ichalkaranji<br><hr>
  <h2 style="text-align:center"><b>CAREER OBJECTIVE</b></h2>
  <hr>Data Scientist<br>
    Data anlytists
  <br><hr>
  <h2 style="text-align:center">EDUCATIONAL QUALIFICATION</h2>
  <hr><h3>B.Tech</h3>
    Pursuing in D.Y patil college of engineering in stream of Data science.<br>
  <h3>Diploma</h3>
    Diploma in Sharad Institute of Technology, Yadav in stream of Artificial Intelligence and Machine
    Learning with 87.67 Aggregrade.
  <h3>SSC</h3>
    SSC in Saraswati highschool Ichalkaranji.<hr>
  <h2 style="text-align:center">SKILLS</h2>
  <hr>HTML,CSS<br>
  Basic of python<br>
  JAVA<br>
  Software testing<br><hr>
  <h2 style="text-align:center">HOBBIES</h2>
  <hr> Watching Movies<br>
  Listening Music<br>
  Reading<br><hr>
```

</body>

</html>

Output:

PERSONAL INFORMATION

Dhiraj Mahesh Minche
B.Tech in Data Science
dhirajminche18@gmail.com
Ichalkaranji

CAREER OBJECTIVE

Data Scientist
Data analytists

EDUCATIONAL QUALIFICATION

B.Tech

Pursuing in D.Y.patil college of engineering in stream of Data science.

Diploma

Diploma in Sharad Institute of Technology, Yadav in stream of Artificial Intelligence and Machine Learning with 87.67 Aggregate.

SSC

SSC in Saraswati highschool Ichalkaranji.

SKILLS

HTML,CSS
Basic of python
JAVA
Software testing

HOBBIES

Watching Movies
Listening Music
Reading

PRACTICAL NO: 2

Title: Create web pages with class and ID attributes using HTML5.

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Web Page with Class and ID</title>

  <style>

    /* ID Selector */

    #main-header {

      background-color: #4CAF50;

      color: white;

      text-align: center;

      padding: 20px;

    }

    .content {

      background-color: #f4f4f4;

      padding: 20px;

      margin: 10px 0;

      border-radius: 8px;

    }

    .content p {

      font-size: 1.2em;

    }

    .footer {

      background-color: #333;

      color: white;

      text-align: center;

      padding: 10px;

      position: fixed;
```

```
        width: 100%;
        bottom: 0;
    }
    .content h2 {
        color: #333;
    }
</style>
</head>
<body>
    <!-- Main Header with ID -->
    <header id="main-header">
        <h1>Welcome to My Web Page</h1>
    </header>
    <!-- First Content Section with Class -->
    <section class="content">
        <h2>About Us</h2>
        <p>We are a team of passionate developers who love to create beautiful websites.</p>
    </section>
    <!-- Second Content Section with Class -->
    <section class="content">
        <h2>Our Services</h2>
        <p>We offer web development, design, and digital marketing services to help your business grow.</p>
    </section>
    <!-- Footer with Class -->
    <footer class="footer">
        <p>&copy; 2025 My Web Page. All Rights Reserved.</p>
    </footer>
</body>
</html>
```

Welcome to My Web Page

About Us

We are a team of passionate developers who love to create beautiful websites.

Our Services

We offer web development, design, and digital marketing services to help your business grow.

EXPERIMENT NO – 3

Title: Apply CSS to web pages created after developing the HTML5 pages.

.....

Program:

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

<head>
  <title>Resume</title>
  <style>
    h3 {
      color: blue;
      text-align: center;
      padding: 5px;
    }

    p {
      font-size: 18px;
      line-height: 1.3;
      padding: 5px;
    }

    hr {
      width: 10%;
      border: 1px solid rgb(50, 44, 44);
      margin: 1px auto;
      background-color: lightgray;
      /* background color for the hr elements */
    }

    .personal-info,
    .career-objective,
    .education,
    .skills,
    .hobbies {
      padding: 10px;
      /* Add space inside the div */
      margin-bottom: 20px;
      border: 2px solid #0044cc;
```

```
/* Blue border around the box */
border-radius: 8px;
/* Rounded corners */
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
/* Subtle shadow effect */
font-family: 'Arial', sans-serif;
/* Clean font */
font-size: 18px;
/* Slightly larger font for better readability */
color: #333;
/* Dark text for good contrast */
}

.personal-info {
  background-color: #f0f8ff;
}

.career-objective {
  background-color: #ffebed;
}

.education {
  background-color: #f5f5f5;
}

.skills {
  background-color: #d3ffd3;
}

.hobbies {
  background-color: #ffe4e1;
}

marquee {
  background-color: rgb(206, 173, 178);
  color: black;
  padding: 10px;
  font-size: 25px;
  font-weight: bold;
  display: block;
  margin-bottom: 20px;
}
```

```
</style>
</head>

<body>
  <!-- Marquee Section -->
  <marquee behavior="slide" direction="left" scrollamount="10" scrolldelay="50">-----Welcome to
    my resume page-----</marquee>

  <!-- Personal Information Section -->
  <div class="personal-info">
    <h3>PERSONAL INFORMATION</h3>
    <hr>
    <p>Dhiraj Mahesh Minche<br>
      B.Tech in Data Science<br>
      dhirajminche18@gmail.com<br></p>
  </div>
  <!-- Career Objective Section -->
  <div class="career-objective">
    <h3>CAREER OBJECTIVE</h3>
    <hr>
    Data Scientist | Data Analyst<br><br>
  </div>
  <!-- Educational Qualification Section -->
  <div class="education">
    <h3>EDUCATIONAL QUALIFICATION</h3>
    <hr><br>
    <b>B.Tech</b> | Pursuing in D.Y. Patil College of Engineering in the stream of Data
    Science.<br><br>
    <b>Diploma</b> | Diploma from Sharad Institute of technology Polytechnic, yadrav in Artificial
    Intelligence and
    Machine Learning with 87.67% aggregate<br><br>
    <b>SSC</b> | SSC from Saraswati Highschool<br><br>
  </div>
  <!-- Skills Section -->
  <div class="skills">
    <h3>SKILLS</h3>
    <hr>
    <ul>
      <li>Python</li>
      <li>Java</li>
      <li>Software Testing</li>
    </ul>
```



```
</div>
<!-- Hobbies Section -->
<div class="hobbies">
  <h3>HOBBIES</h3>
  <hr>
  <ul>
    <li>Watching Movies</li>
    <li>Listening Music</li>
    <li>Reading</li>
  </ul>
</div>
</body>

</html>
```

Output:

-----Welcome to my resume page-----	
<div>Chirag Mahesh Minche B.Tech in Data Science chiragminche10@gmail.com</div>	<div>PERSONAL INFORMATION</div>
<div>Data Scientist Data Analyst</div>	<div>CAREER OBJECTIVE</div>
<div>B.Tech Pursuing in D.Y. Patil College of Engineering in the stream of Data Science. Diploma Diploma from Sharad Institute of Technology Polytechnic, yadav in Artificial Intelligence and Machine Learning with 87.67% aggregate SSC SSC from Saraswati Highschool</div>	<div>EDUCATIONAL QUALIFICATION</div>
<div><ul style="list-style-type: none">PythonJavaSoftware Testing</div>	<div>SKILLS</div>
<div><ul style="list-style-type: none">Watching MoviesListening MusicReading</div>	<div>HOBBIES</div>

PRACTICAL NO: 4

Title: Apply different CSS selectors to HTML5 web pages.

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>CSS Selectors Simple Example</title>

  <style>

    /* Element Selector */

    body {

      font-family: Arial, sans-serif;

      background-color: #f4f4f4;

      margin: 0;

      padding: 0;

    }

    #header {

      background-color: #333;

      color: white;

      padding: 10px;

      text-align: center;

    }

    .box {

      background-color: #fff;

      padding: 20px;

      margin: 20px;

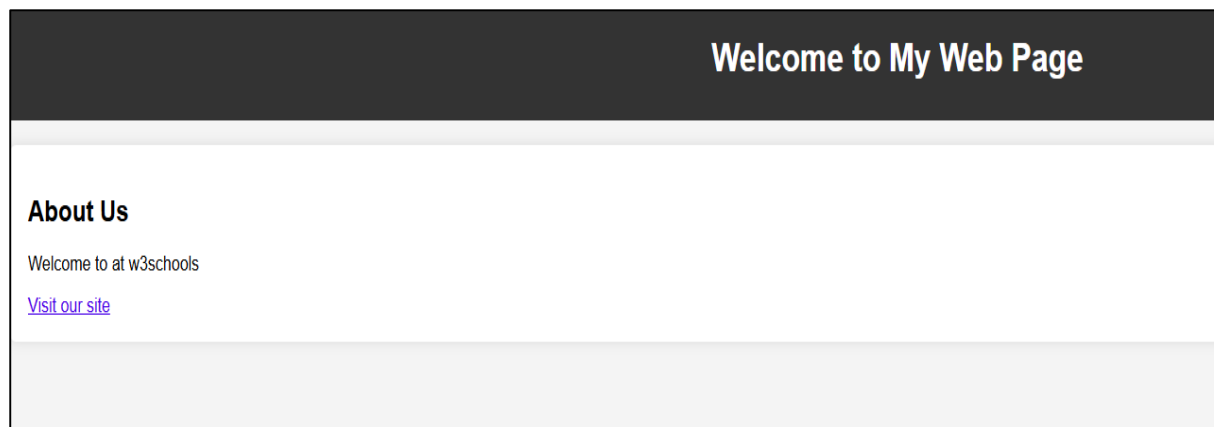
      border-radius: 8px;

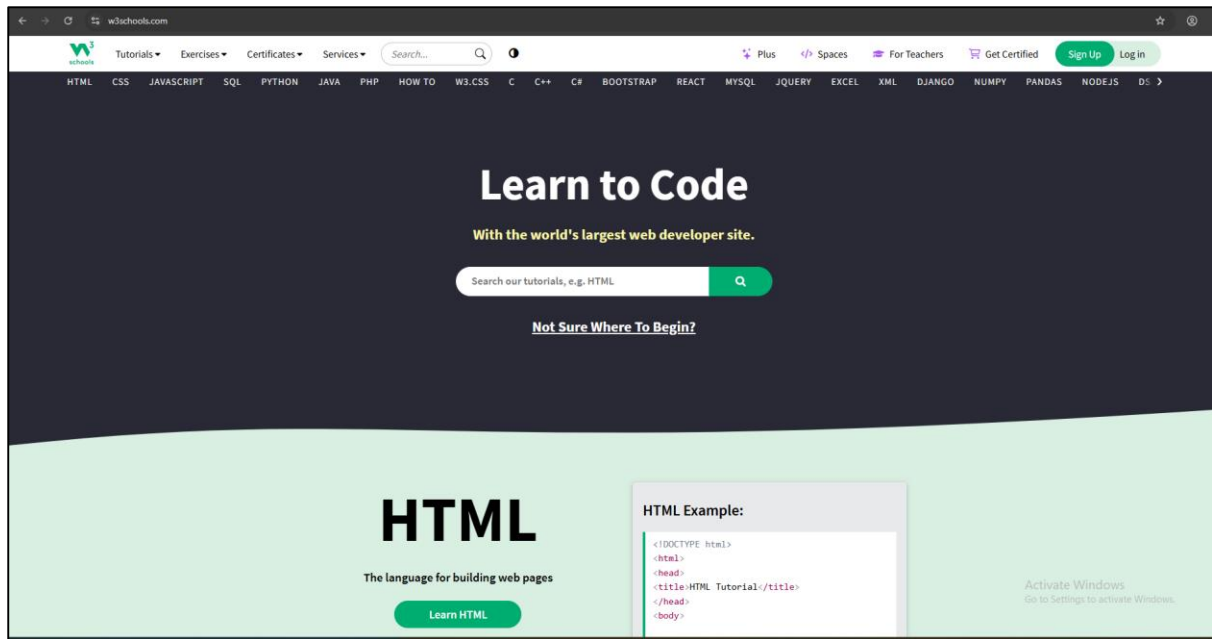
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

    }

    /* Pseudo-class Selector */
```

```
a:hover {  
    color: red;  
}  
  
</style>  
</head>  
<body>  
    <!-- Header with ID -->  
    <header id="header">  
        <h1>Welcome to My Web Page</h1>  
    </header>  
    <!-- Box with Class -->  
    <div class="box">  
        <h2>About Us</h2>  
        <p>Welcome to at w3schools</p>  
        <a href="https://www.w3schools.com/">Visit our site</a>  
    </div>  
</body>  
</html>
```





EXPERIMENT NO – 5

Title: Create a responsive web page using media queries

.....

```
<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>

body {

    background-color: lightgreen;

}

@media only screen and (orientation: landscape) {

    body {

        background-color: lightblue;

    }

}

</style>

</head>

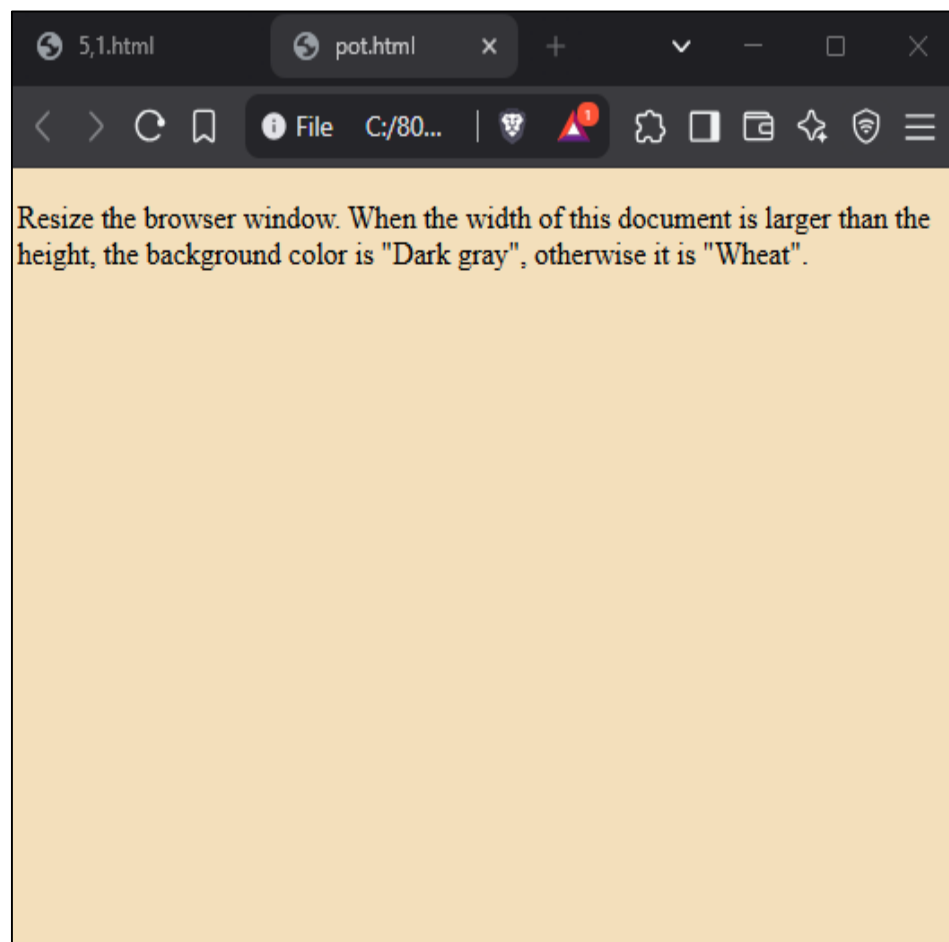
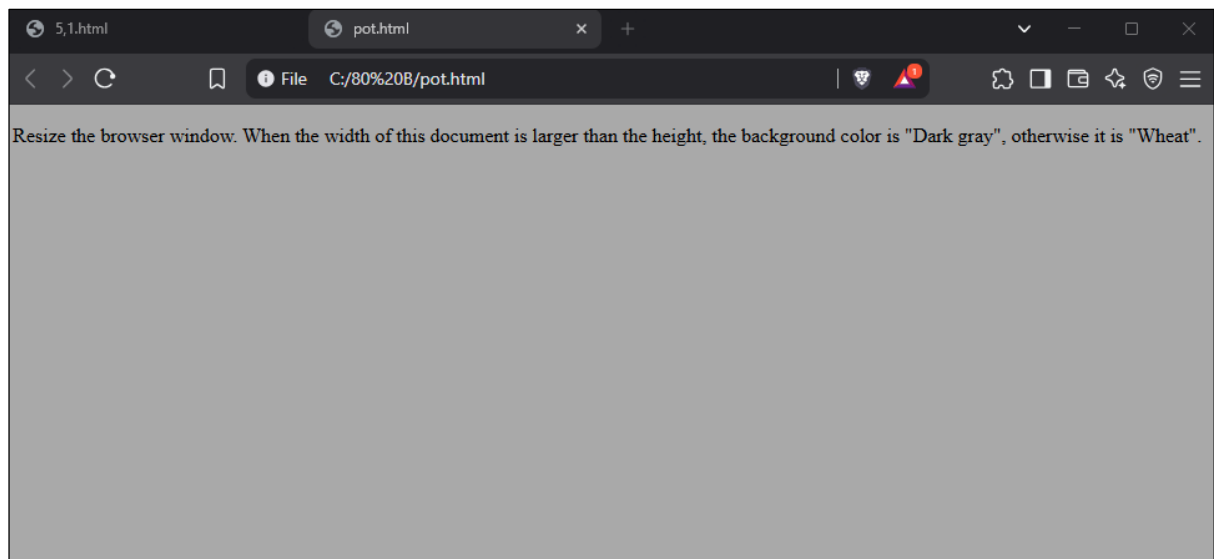
<body>

<p>Resize the browser window. When the width of this document is larger than the height, the
background color is "lightblue", otherwise it is "lightgreen".</p>

</body>

</html>
```

OUTPUT :



PRACTICAL NO: 6

Title: Create the responsive web page using bootstrap.

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <title>Simple Bootstrap Page</title>

  <!-- Bootstrap CSS -->

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">

</head>

<body>

  <!-- Navbar -->

  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">

    <div class="container">

      <a class="navbar-brand" href="#">MySite</a>

      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav">

        <span class="navbar-toggler-icon"></span>

      </button>

      <div class="collapse navbar-collapse" id="navbarNav">

        <ul class="navbar-nav ms-auto">

          <li class="nav-item"><a class="nav-link active" href="#">Home</a></li>

          <li class="nav-item"><a class="nav-link" href="#">About</a></li>

        </ul>

      </div>

    </div>

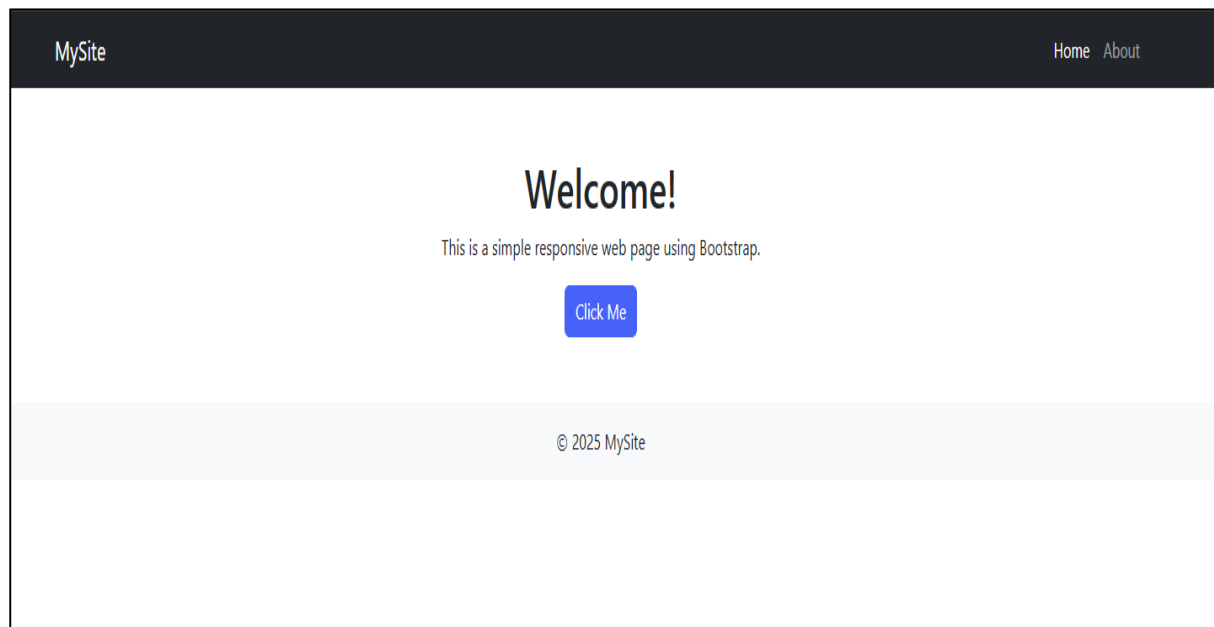
  </nav>

  <!-- Content Section -->

  <div class="container text-center my-5">

    <h1>Welcome!</h1>
```

```
<p>This is a simple responsive web page using Bootstrap.</p>
<button class="btn btn-primary">Click Me</button>
</div>
<!-- Footer -->
<footer class="bg-light text-center py-3">
  <p class="mb-0">&copy; 2025 MySite</p>
</footer>
<!-- Bootstrap JS -->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```



PRACTICAL NO: 7

Title: Write a JavaScript to compute mathematical operations on client side.

```
<!DOCTYPE html>

<html>

<head>

  <title>Math Operations</title>

</head>

<body>

  <h2>Math Operations</h2>

  <label for="num1">Number 1:</label>

  <input type="number" id="num1" />

  <label for="num2">Number 2:</label>

  <input type="number" id="num2" />

  <select id="operation">

    <option value="add">Addition (+)</option>

    <option value="subtract">Subtraction (-)</option>

    <option value="multiply">Multiplication (×)</option>

    <option value="divide">Division (÷)</option>

  </select>

  <button onclick="compute()">Compute</button>

  <h3>Result: <span id="result">---</span></h3>

  <script>

    function compute() {

      const num1 = parseFloat(document.getElementById("num1").value);

      const num2 = parseFloat(document.getElementById("num2").value);
```

```
const operation = document.getElementById("operation").value;
let result;
if (isNaN(num1) || isNaN(num2)) {
    result = "Please enter valid numbers.";
} else {
    switch (operation) {
        case "add":
            result = num1 + num2;
            break;
        case "subtract":
            result = num1 - num2;
            break;
        case "multiply":
            result = num1 * num2;
            break;
        case "divide":
            if (num2 === 0) {
                result = "Cannot divide by zero.";
            } else {
                result = num1 / num2;
            }
            break;
        default:
            result = "Invalid operation.";
    }
}

document.getElementById("result").textContent = result;
}
</script>
</body>
</html>
```

Math Operations

Number 1: Number 2: Addition (+) ▼ Compute

Result: 30

Math Operations

Number 1: Number 2: Subtraction (-) ▼ Compute

Result: 10

Math Operations

Number 1: Number 2: Multiplication (×) ▼ Compute

Result: 200

Math Operations

Number 1: Number 2: Division (÷) ▼ Compute

Result: 2

PRACTICAL NO: 8

Title: Write a JavaScript to handle event generate by Client.

```
<!DOCTYPE html>

<html>

<head>

  <title>Event Handling</title>

</head>

<body>

  <h2>Client-Side Event Handling</h2>

  <button id="myButton">Click Me</button>

  <p id="message"></p>

  <script>

    const button = document.getElementById("myButton");

    const message = document.getElementById("message");

    button.addEventListener("click", function () {

      message.textContent = "Button was clicked!";

    });

  </script>

</body>

</html>
```

Client-Side Event Handling

Click Me

Client-Side Event Handling

Click Me

Button was clicked!

EXPERIMENT NO – 9

Title: Write a JavaScript to perform form validation.

.....

Program:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Form Validation</title>
  <style>
    .error {
      color: red;
    }
  </style>
</head>
<body>
  <h2>Form Validation Example</h2>
  <form id="myForm">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name">
    <br><br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email">
    <br><br>
    <label for="age">Age:</label>
    <input type="text" id="age" name="age">
    <br><br>
    <button type="submit">Submit</button>
  </form>
  <p id="errorMessage" class="error"></p>

  <script>
    const form = document.getElementById("myForm");
    const errorMessage = document.getElementById("errorMessage");
    function validateForm(event) {
      errorMessage.textContent = "";
      const name = document.getElementById("name").value.trim();
      const email = document.getElementById("email").value.trim();
```

```
const age = document.getElementById("age").value.trim();
if (name === "") {
    errorMessage.textContent = "Name is required.";
    event.preventDefault();
    return false;
}
const emailRegex = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;
if (email === "") {
    errorMessage.textContent = "Email is required.";
    event.preventDefault();
    return false;
} else if (!emailRegex.test(email)) {
    errorMessage.textContent = "Please enter a valid email address.";
    event.preventDefault();
    return false;
}
if (age === "") {
    errorMessage.textContent = "Age is required.";
    event.preventDefault();
    return false;
} else if (isNaN(age)) {
    errorMessage.textContent = "Age must be a number.";
    event.preventDefault();
    return false;
}
alert("Form submitted successfully!");
return true;
form.addEventListener("submit", validateForm);
</script>
</body>
</html>
```

Output:

Form Validation Example

Name:

Email:

Age:

PRACTICAL NO: 10

Title: Write a jQuery script to provide animations effects in web pages..

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Simple jQuery Animation</title>

  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

  <style>

    .box {

      width: 200px;

      height: 100px;

      background-color: lightblue;

      margin: 20px;

      text-align: center;

      line-height: 100px;

      font-size: 18px;

      border-radius: 5px;

      display: none;

    }

  </style>

</head>

<body>

  <button id="fadeInBtn">Fade In</button>

  <button id="fadeOutBtn">Fade Out</button>

  <div id="box" class="box">Hello!</div>

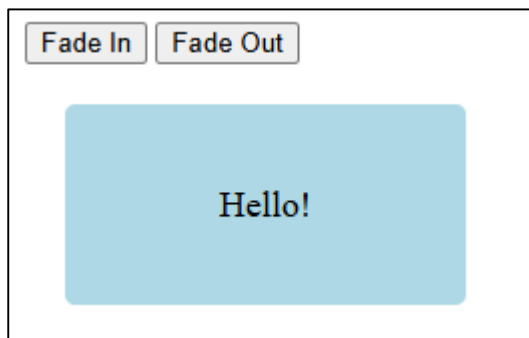
  <script>

    $(document).ready(function() {

      // Fade In effect

      $("#fadeInBtn").click(function() {
```

```
    $("#box").fadeIn();  
});  
// Fade Out effect  
$("#fadeOutBtn").click(function() {  
    $("#box").fadeOut();  
});  
});  
</script>  
</body>  
</html>
```



PRACTICAL NO: 11

Title: Write a jQuery script to handle event generated by client.

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>jQuery Event Handling</title>

  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

  <style>

    #message {

      display: none;

      margin-top: 20px;

      padding: 10px;

      background-color: lightgreen;

      border-radius: 5px;

    }

  </style>

</head>

<body>

  <button id="clickButton">Click Me</button>

  <div id="message">Hello, this is your message!</div>

  <script>

    $(document).ready(function() {

      // Handling the click event on the button

      $("#clickButton").click(function() {

        // Toggle visibility of the message

        $("#message").toggle();

      });

    });

  </script>
```

</body>

</html>

Click Me

Click Me

Hello, this is your message!

PRACTICAL NO: 12

Title: Write a jQuery script to manipulate DOM

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>jQuery DOM Manipulation</title>

  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

  <style>

    .highlight {

      color: white;

      background-color: red;

    }

    .box {

      width: 100px;

      height: 100px;

      background-color: lightblue;

      margin: 20px;

      text-align: center;

      line-height: 100px;

      font-size: 18px;

    }

  </style>

</head>

<body>

  <h2>DOM Manipulation with jQuery</h2>

  <button id="addBoxBtn">Add Box</button>

  <button id="removeBoxBtn">Remove Box</button>

  <button id="changeTextBtn">Change Text</button>
```

```
<button id="toggleColorBtn">Toggle Color</button>

<div id="boxContainer"></div>

<script>

$(document).ready(function() {

    $("#addBoxBtn").click(function() {

        $("#boxContainer").append('<div class="box">Box</div>');

    });

    $("#removeBoxBtn").click(function() {

        $("#boxContainer .box:last").remove();

    });

    $("#changeTextBtn").click(function() {

        $(".box").text("New Text");

    });

    $("#toggleColorBtn").click(function() {

        $("#boxContainer .box:first").toggleClass("highlight");

    });

});

</script>

</body>

</html>
```

DOM Manipulation with jQuery

Add Box

Remove Box

Change Text

Toggle Color



Box

DOM Manipulation with jQuery

Add Box

Remove Box

Change Text

Toggle Color

New Text



DOM Manipulation with jQuery

Add Box

Remove Box

Change Text

Toggle Color

New Text



DOM Manipulation with jQuery

Add Box

Remove Box

Change Text

Toggle Color

