Experiment4

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Registration Form</title>
    <style> body {
font-family: Arial, sans-serif;
background-color: #f0f0f0;
margin: 0;     padding: 20px;     }
h1 {     color: #333;   text-align: center;     }
table { width: 100%;
max-width: 600px;     margin: 0 auto;
background-color: #fff;   padding: 20px;
border-radius: 8px;  box-shadow: 0 0 10px
rgba(0,0,0,0.1);     }
td {     padding: 10px;     }
```

```css
label {      color: #555;    font-weight: bold; }
  input[type="text"], input[type="email"],
input[type="password"], select, textarea {
width: 100%;                    padding: 8px;
  border: 1px solid #ddd;    border-radius: 4px;
  box-sizing: border-box;      font-size: 16px;   }
input[type="radio"], input[type="checkbox"] {
  margin-right: 5px;   }
  input[type="submit"] {
  background-color: #4CAF50;        color: white;
  padding: 10px 20px;      border: none;
  border-radius: 4px;      cursor: pointer;
font-size: 18px;            }
input[type="submit"]:hover {
background-color: #45a049;      }
  .error {      color: #ff0000;      font-size: 14px;  }
  </style>      </head>    <body>
  <h1>Registration Form</h1>
  <form action="#" method="post">
```

```html
<table><tr><td><label for="fullname">Full Name:</label></td>
<td><input type="text" id="fullname" name="fullname" required></td>
</tr><tr><td><label for="email">Email:</label></td>
<td><input type="email" id="email" name="email" required></td>
</tr><tr>
<td><label for="password">Password:</label></td>
<td><input type="password" id="password" name="password" required></td>
</tr><tr><td><label for="confirm_password">Confirm Password:</label></td>
<td><input type="password" id="confirm_password" name="confirm_password" required></td>
</tr><tr>
<td><label>Gender:</label></td>
```

```html
<td><input type="radio" id="male" name="gender" value="male" required>
<label for="male">Male</label>
<input type="radio" id="female" name="gender" value="female" required>
<label for="female">Female</label>
    <input type="radio" id="other" name="gender" value="other" required>
      <label for="other">Other</label>
  </td></tr><tr>
        <td><label for="birthdate">Date of Birth:</label></td>
<td><input type="date" id="birthdate" name="birthdate" required></td>
</tr> <tr><td><label for="country">Country:</label></td>
<td> <select id="country" name="country" required> <option value="">Select a country </option>
  <option value="usa">India</option>
   <option value="uk">United Kingdom</option>
```

```html
<option value="canada">Canada </option>
<option value="australia">Australia</option>
 <option value="other">Other</option>
</select> </td> </tr> <tr>
<td><label for="interests">Interests:</label></td>
<td> <input type="checkbox" id="sports" name="interests[]" value="sports">
<label for="sports">Sports</label>
<input type="checkbox" id="music" name="interests[]" value="music">
<label for="music">Music</label>
<input type="checkbox" id="reading" name="interests[]" value="reading">
 <label for="reading">Reading</label>
<input type="checkbox" id="travel" name="interests[]" value="travel">
<label for="travel">Travel</label> </td>
</tr><tr>
<td><label for="bio">Bio:</label></td>
```

```html
<td><textarea id="bio" name="bio" rows="4"></textarea></td>
</tr>    <tr
<td colspan="2" style="text-align: center;">
<input type="submit" value="Register">
</td></tr></table></form></body></html>
```

Experiment 5

```html
<!DOCTYPE html> <html lang="en">
<head> <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>The Daily Chronicle</title>
 <style> body {  font-family: 'Georgia', serif;
line-height: 1.6;     color: #333;
max-width: 1200px;    margin: 0 auto;
padding: 20px;    background-color: #f4f4f4; }
header {   background-color: #1a1a1a;
color: #fff;  padding: 20px; text-align: center;}
```

```css
header h1 { margin: 0;  font-size: 2.5em;  }
nav {  background-color: #333;
    color: #fff;   padding: 10px;  }
nav ul {   list-style-type: none;
padding: 0;   margin: 0;    display: flex;
    justify-content: center;        }
nav ul li {      margin: 0 10px;      }
nav ul li a {color: #fff;  text-decoration: none;}
main {  display: flex;   margin-top: 20px;  }
section {  flex: 2;  margin-right: 20px;   }
article {   background-color: #fff;
padding: 20px;       margin-bottom: 20px;
box-shadow: 0 0 10px rgba(0,0,0,0.1);     }
article h2 {   color: #1a1a1a;
font-size: 1.8em; }
aside {     flex: 1;
background-color: #e6e6e6;
```

```css
      padding: 20px;
       box-shadow: 0 0 10px rgba(0,0,0,0.1);  }
      figure {   margin: 0;     text-align: center;  }
      figure img {max-width: 100%;  height: auto; }
      figcaption {  font-style: italic;
      color: #666;   font-size: 0.9em;  }
       table {  width: 100%;
      border-collapse: collapse;
      margin-bottom: 20px;  }
      th, td {  border: 1px solid #ddd;
      padding: 10px;   text-align: left;     }
      th {     background-color: #f2f2f2;  }
      footer { background-color: #1a1a1a;
      color: #fff;    text-align: center;
      padding: 10px;  margin-top: 20px;
      } </style>    </head>
      <body>  <header>
```

```html
<h1>The Daily Chronicle</h1>
</header><nav> <ul>
<li><a href="#">Home</a></li>
    <li><a href="#">Politics</a></li>
    <li><a href="#">Technology</a></li>
    <li><a href="#">Sports</a></li>
    <li>
<a href="#">Entertainment</a> </li>
</ul>  </nav>
<main>  <section>   <article>
  <h2>Breaking News: Major Technological Breakthrough</h2>
<p>Scientists have announced a groundbreaking discovery in the field of quantum computing, potentially revolutionizing the tech industry.</p>
<figure> <img src="https://www.cnet.com/a/img/resize/c7cb26e927bebaa784fb55a01e71d7fecb15d2
```

e3/hub/2019/06/26/3f76e99d-8055-46f3-8f27-558ee276b665/20180405-ibm-q-quantum-computer-02.jpg?auto=webp&fit=crop&height=675&width=1200" alt="Quantum Computer">

<figcaption>A state-of-the-art quantum computer at the research facility</figcaption>

</figure> </article>

<article>

<h2>Local Sports Team Wins Championship</h2>

<p>In a thrilling match, our local team secured victory in the national championship, bringing pride to our city.</p>

<table><tr><th>Team</th>
 <th>Score</th></tr>
  <tr><td>Local Heroes</td>
  <td>3</td> </tr>

```html
<tr><td>Visiting Challengers</td>
<td>2</td> </tr>
</table> </article> </section>
<aside>
<h3>Weather Update</h3>
<p>Expect sunny skies with a high of 75°F (24°C) today.</p>
<h3>Upcoming Events</h3>
<ol><li>City Festival - This Weekend</li>
<li>Tech Conference - Next Month</li>
<li>Charity Run - In Two Weeks</li>
<ol></aside>
</main>
<footer>
<p>&copy; 2023 The Daily Chronicle. All rights reserved.</p>
</footer></body>
</html>
```

EXP 6: SIMPLE CALCULATOR

```html
<!DOCTYPE html><html lang="en">
<head><meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Simple Calculator</title>
    <style>body {
font-family: Arial, sans-serif;
display: flex;      justify-content: center;
align-items: center;      height: 100vh;
margin: 0;   background-color: #f0f0f0;  }
.calculator {
background-color: #fff;
border-radius: 8px;
 box-shadow: 0 0 10px rgba(0,0,0,0.1);
 padding: 20px;    width: 300px;   }
#display {
```

```css
width: 100%;  height: 40px; font-size: 1.5em;
text-align: right;     margin-bottom: 10px;
padding: 5px;   box-sizing: border-box;  }
.buttons {   display: grid;
grid-template-columns: repeat(4, 1fr);
gap: 10px;   }
button {   padding: 10px;  font-size: 1.2em;
border: none;   background-color: #e0e0e0;
cursor: pointer;  border-radius: 4px;       }
button:hover {background-color: #d0d0d0; }
 .operator {  background-color: #f0a030;
color: white;  }
.operator:hover {
background-color: #e09020;  }
```

```html
    </style>  </head>  <body>
    <div class="calculator">
<input type="text" id="display" readonly>
```

```html
<div class="buttons">
 <button onclick="appendToDisplay('7')">7</button>
<button onclick="appendToDisplay('8')">8</button>
<button onclick="appendToDisplay('9')">9</button>
<button class="operator" onclick="setOperation('+')">&plus;</button>
<button onclick="appendToDisplay('4')">4</button>
<button onclick="appendToDisplay('5')">5</button>
<button onclick="appendToDisplay('6')">6</button>
 <button class="operator" onclick="setOperation('-')"> &minus;
</button>
```

```html
<button onclick="appendToDisplay('1')">1</button>
<button onclick="appendToDisplay('2')">2</button>
<button onclick="appendToDisplay('3')">3</button>
<button class="operator" onclick="setOperation('*')">&times;</button>

<button onclick="appendToDisplay('0')">0</button>
<button onclick="appendToDisplay('.')">.</button>
<button class="operator" onclick="calculate()">&equals;</button>
<button class="operator" onclick="setOperation('/')">&divide;</button>
<button class="operator" onclick="setOperation('%')">%</button>
```

```html
        <button class="operator" onclick="setOperation('^')">x<sup>y</sup></button>

        <button class="operator" onclick="squareRoot()">√</button>

        <button class="operator" onclick="square()">x<sup>2</sup></button>

        <button onclick="clearDisplay()">C</button>
    </div>
  </div>
<script>
    let display = document.getElementById('display');

    let currentValue = '';

    let operation = '';

    let previousValue = '';
function appendToDisplay(value) {
```

```javascript
    currentValue += value;
    display.value = currentValue;  }
function clearDisplay() {
    currentValue = '';   operation = '';
previousValue = '';   display.value = '';  }
function setOperation(op) {
  if (currentValue !== '') {
    if (previousValue !== '') {  calculate();  }
    operation = op;
    previousValue = currentValue;
  currentValue = '';    }  }
function calculate() {
if (previousValue !== '&& currentValue !==
') { let result;
const prev = parseFloat(previousValue);
const current = parseFloat(currentValue);
switch(operation) {
case '+':  result = prev + current;    break;
```

```javascript
      case '-':    result = prev - current;   break;
      case '*':   result = prev * current;    break;
      case '/':  result = prev / current;    break;
      case '%':  result = prev % current;   break;
      case '^': result = Math.pow(prev, current);
            break;            }
    display.value = result;
    previousValue = result.toString();
    currentValue = ''; operation = ''; }        }
function squareRoot() { if (currentValue !==
'') {  const result =
Math.sqrt(parseFloat(currentValue));
    display.value = result;
    currentValue = result.toString();        }    }
function square() {
 if (currentValue !== '') { const result =
Math.pow(parseFloat(currentValue), 2);
    display.value = result;
```

```
currentValue = result.toString();  }      }
</script>    </body>      </html>
```

a)VISITOR.PHP

```
<!DOCTYPE html>
<html lang="en">
<head><meta charset="UTF-8">
<meta name="viewport" content="width=device-
width, initial-scale=1.0">
<title>Visitor Counter</title>
<style> body {
  font-family: Arial, sans-serif;
  line-height: 1.6;      margin: 0;
  padding: 20px;   background-color: #f4f4f4;  }
.container{ max-width: 600px;        margin: auto;
 background: white;        padding: 20px;
```

```
      border-radius: 5px;

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

      h1 {   color: #333;   text-align: center;        }

.counter { font-size: 24px;     text-align: center;

            margin-top: 20px;      }

</style>    </head>    <body>

<div class="container">

<h1>Welcome to Our Website</h1>

   <div class="counter">

   <?php

      $counterFile = 'visitor_count.txt';

       if (file_exists($counterFile)) {

        $count = (int)file_get_contents($counterFile);

         } else {   $count = 0;     }

       $count++;

file_put_contents($counterFile, $count);

echo "<h2>Visitor Count</h2>";
```

```php
echo "<p>You are visitor number: $count</p>";
?> </div>  </div>      </body>        </html>
```

b. student_record.php

```html
<!DOCTYPE html>
<html lang="en">
<head><meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Student Record Sorter</title>
 <style>    body {
font-family: Arial, sans-serif;     line-height: 1.6;
  margin: 0;        padding: 20px;
background-color: #f4f4f4;         }
.container {    max-width: 800px;
margin: auto;       background: white;
padding: 20px;       border-radius: 5px;
box-shadow: 0 0 10px rgba(0,0,0,0.1);       }
```

```css
h1 {    color: #333;    text-align: center;    }
table { width: 100%;
border-collapse: collapse;    margin-top: 20px;  }
th, td {  padding: 10px;    border: 1px solid #ddd;
        text-align: left      }
th {    background-color: #f2f2f2;   }
</style>  </head>   <body>
```

```html
    <div class="container">
    <h1>Student Records</h1>
```

```php
    <?php
 $host = 'localhost';  $dbname = 'student_records';
$username = 'root';       $password = '';
try {    $pdo = new
PDO("mysql:host=$host;dbname=$dbname",
$username, $password);

$pdo->setAttribute(PDO::ATTR_ERRMODE,
PDO::ERRMODE_EXCEPTION);
```

```php
$stmt = $pdo->query("SELECT * FROM students");
$students = $stmt->fetchAll(PDO::FETCH_ASSOC);
function selectionSort(&$arr, $n) {
for ($i = 0; $i < $n - 1; $i++) {     $min_idx = $i;
  for ($j = $i + 1; $j < $n; $j++) {
     if ($arr[$j]['cgpa'] < $arr[$min_idx]['cgpa']) {
       $min_idx = $j          }                    }
    if ($min_idx != $i) {
       $temp = $arr[$i];     $arr[$i] = $arr[$min_idx];
       $arr[$min_idx] = $temp;   }        }        }
selectionSort($students, count($students));
echo "<table>";
echo"<tr><th>ID</th><th>Name</th><th>GPA</th></tr>";
   foreach ($students as $student) { echo "<tr>";
    echo "<td>" . htmlspecialchars($student['id']) . "</td>";
```

```php
echo "<td>" . htmlspecialchars($student['name'])
. "</td>";

echo "<td>" . htmlspecialchars($student['cgpa']) .
"</td>";

 echo "</tr>";   }

 echo "</table>";  } catch(PDOException $e) {

 echo "Connection failed: " . $e->getMessage();  }

  ?> </div>   </body>   </html>
```