

1)

```
<!DOCTYPE html>
```

```
<head>
```

```
  <title>My First Web Page | vtucode</title>
```

```
</head>
```

```
<body>
```

```
  <!-- Moving text -->
```

```
  <marquee>Welcome to vtucode</marquee>
```

```
  <!-- Different heading tags -->
```

```
  <h1>This is an H1 heading</h1>
```

```
  <h2>This is an H2 heading</h2>
```

```
  <h3>This is an H3 heading</h3>
```

```
  <h4>This is an H4 heading</h4>
```

```
  <h5>This is an H5 heading</h5>
```

```
  <h6>This is an H6 heading</h6>
```

```
  <!-- Paragraph -->
```

```
  <p>This is a paragraph demonstrating the use of the paragraph tag in HTML.</p>
```

```
  <!-- Horizontal line -->
```

```
  <hr>
```

```
  <!-- Line break -->
```

```
  <p>This is a line of text before the break.<br>This is a line of text after the break.</p>
```

```
  <!-- Block Quote -->
```

```
  <blockquote>
```

```
    This is a blockquote. It is used to display a quotation or excerpt from another source.
```

```
  </blockquote>
```

```
  <!-- Pre tag -->
```

```
  <pre>
```

```
    This is preformatted text.
```

```
    It preserves spaces and line breaks.
```

```
  </pre>
```

```
  <!-- Different Logical Style tags -->
```

```
  <p>This is <b>bold</b> text.</p>
```

```
  <p>This is <i>italicized</i> text.</p>
```

```
  <p>This is <u>underlined</u> text.</p>
```

```
  <p>This is <sup>superscript</sup> text.</p>
```

```
  <p>This is <sub>subscript</sub> text.</p>
```

```
  <p>This is <em>emphasized</em> text.</p>
```

```
  <p>This is <strong>strong</strong> text.</p>
```

```
  <p>This is <mark>highlighted</mark> text.</p>
```

```
  <p>This is <small>small</small> text.</p>
```

```
  <p>This is <del>deleted</del> text.</p>
```

```
  <p>This is <ins>inserted</ins> text.</p>
```

```
  <p>This is <code>inline code</code> text.</p>
```

```
</body>
```

```
</html>
```

```

2)
<!DOCTYPE html>
<head>
<title>Time Table | vtucode</title>
<style>
  body {
    font-family: Arial, sans-serif;
  }
  table {
    width: 80%;
    margin: 20px auto;
    border-collapse: collapse; }
  th,
  td {border: 1px solid #ddd;
    padding: 8px;
    text-align: center;
  } th {
    background-color: #f4f4f4;
    color: #333;
  } tr:nth-child(even) {
    background-color: #f9f9f9;
  }
  tr:nth-child(odd) {
    background-color: #e6f7ff;
  }
  .lab-hour {
    background-color: #ffcccc;
  }
  .elective-hour {
    background-color: #ccffcc;
  }
  .highlight {
    font-weight: bold;
    color: #d63384;
  }
  tfoot {
    background-color: #e0e0e0;
    font-weight: bold;
  }
</style>
</head>
<body>
<h1 style="text-align: center;">Time Table</h1>
<table>
  <thead>
    <tr>
      <th>Day/Time</th>
      <th>9:00 - 10:00</th>
      <th>10:00 - 11:00</th>
      <th>11:00 - 12:00</th>
      <th>12:00 - 1:00</th>
      <th>Lunch Break</th>
      <th>2:00 - 3:00</th>
      <th>3:00 - 4:00</th>

```

```

</tr>
</thead>
<tbody>
  <tr>
    <td>Monday</td>
    <td>Math</td>
    <td>English</td>
    <td class="lab-hour">Physics Lab</td>
    <td>Elective</td>
    <td rowspan="5" class="highlight">Break</td>
    <td class="elective-hour">Elective</td>
    <td>History</td>
  </tr>
  <tr>
    <td>Tuesday</td>
    <td class="elective-hour">Elective</td>
    <td>Biology</td>
    <td>Math</td>
    <td class="lab-hour">Chemistry Lab</td>
    <td>Geography</td>
    <td>PE</td>
  </tr>
  <tr>
    <td>Wednesday</td>
    <td>History</td>
    <td class="lab-hour">Computer Lab</td>
    <td>English</td>
    <td>Math</td>
    <td>Physics</td>
    <td class="elective-hour">Elective</td>
  </tr>
  <tr>
    <td>Thursday</td>
    <td>PE</td>
    <td>History</td>
    <td>Geography</td>
    <td class="elective-hour">Elective</td>
    <td>Biology</td>
    <td>Math</td>
  </tr>
  <tr>
    <td>Friday</td>
    <td class="lab-hour">Biology Lab</td>
    <td>Math</td>
    <td>English</td>
    <td>Physics</td>
    <td class="elective-hour">Elective</td>
    <td>Chemistry</td>
  </tr>
</tbody>
<tfoot>
  <tr>
    <td colspan="8">End of Timetable</td>
  </tr>
</tfoot>
</table></body></html>

```

3)

```
<!DOCTYPE html>
```

```
<head>
```

```
  <title>Styled HTML Page | vtucode</title>
```

```
  <link rel="stylesheet" href="style.css">
```

```
</head>
```

```
<body>
```

```
  <h2>Main Heading</h2>
```

```
  <h3>Subheading</h3>
```

```
  <hr>
```

```
  <p>This is a paragraph demonstrating the basic text styling applied by CSS.</p>
```

```
  <div>
```

This is a styled `div` element with padding and a light border. Inside the div, we can also use

`span elements` that have their own styles, like this bold and orange text.

```
</div>
```

```
<p>Current time: <time>10:30 AM</time></p>
```

```

```

```
<p>Visit <a href="https://vtucode.in">vtucode.in</a> to learn more about our services.</p>
```

```
<p class="highlight">This paragraph is highlighted with a yellow background.</p>
```

```
<p class="center">This text is centered using a class selector.</p>
```

```
<p id="special-paragraph">This is a special paragraph with unique styles applied through an ID selector.</p>
```

```
</body>
```

```
</html>
```

Css

```
* {
```

```
  margin: 0;
```

```
  padding: 0;
```

```
  box-sizing: border-box;
```

```
}
```

```
h2 {
```

```
  color: #2c3e50;
```

```
  font-size: 2em;
```

```
  margin-bottom: 10px;
```

```
}
```

```
h3 {
```

```
  color: #34495e;
```

```
  font-size: 1.5em;
```

```
  margin-bottom: 8px;
```

```
}
```

```
hr {
```

```
  border: 0;
```

```
  height: 2px;
```

```
  background-color: #e74c3c;
```

```
  margin: 20px 0;
```

```
}
```

```
p {
```

```
  font-family: 'Arial', sans-serif;
```

```
  line-height: 1.6;
```

```
  margin: 10px 0;
```

```
}
```

```
div {
  padding: 15px;
  border: 1px solid #bdc3c7;
  background-color: #ecf0f1;
}
span {
  color: #e67e22;
  font-weight: bold;
}
time::before {
  content: '🕒';
  color: #16a085;
}
img {
  margin-left: 15px;
  height: 300px;
  width: 400px;
  border-radius: 8px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
  max-width: 100%;
}
a {
  text-decoration: none;
  color: #ea0e4c;
}

a:hover {
  color: #6200ee;
  text-decoration: underline;
}

.highlight {
  background-color: yellow;
  padding: 3px;
}

.center {
  text-align: center;
}

#special-paragraph {
  font-size: 1.2em;
  color: #8e44ad;
  background-color: #f5f5f5;
  padding: 10px;
  border-left: 5px solid #8e44ad;
}

h2,
h3,
p {
  margin-left: 20px;
}
```

4)

```
<!DOCTYPE html>
```

```
<head>
```

```
  <title>Registration Form | vtucode</title>
```

```
  <style>
```

```
    body {
```

```
      font-family: Arial, sans-serif;
```

```
      background-color: #f0f4f8;
```

```
      margin: 0;
```

```
      padding: 20px;
```

```
      display: flex;
```

```
      justify-content: center;
```

```
      align-items: center;
```

```
      min-height: 100vh } 
```

```
  .container {
```

```
    width: 100%;
```

```
    max-width: 600px;
```

```
    background-color: #fff;
```

```
    padding: 20px;
```

```
    border-radius: 8px;
```

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

```
    display: flex;
```

```
    flex-direction: column;
```

```
    gap: 20px  } 
```

```
  h2 {
```

```
    text-align: center;
```

```
    color: #333;
```

```
    margin: 0; }
```

```
  .form-group {
```

```
    display: flex;
```

```
    flex-direction: column;
```

```
    gap: 5px;
```

```
    margin-bottom: 10px;  }
```

```
  label {
```

```
    font-size: 14px;
```

```
    color: #555; }
```

```
  input[type="text"],
```

```
  input[type="email"],
```

```
  input[type="password"],
```

```
  input[type="date"],
```

```
  select,
```

```
  textarea {
```

```
    padding: 10px;
```

```
    border: 1px solid #ccc;
```

```
    border-radius: 4px;
```

```
    font-size: 14px; }
```

```
  .gender-options {
```

```
    display: flex;
```

```
    gap: 10px;
```

```
    align-items: center; }
```

```
  input[type="submit"],
```

```
  input[type="reset"] {
```

```
    padding: 10px 20px;
```

```
    border: none;
```

```

border-radius: 4px;
cursor: pointer;
font-size: 16px;
flex: 1; }
.button-group {
display: flex;
gap: 10px;
justify-content: center; }
input[type="submit"] {
background-color: #4CAF50;
color: white; }
input[type="reset"] {
background-color: #f44336;
color: white; }
.form-group textarea {
margin-bottom: 10px}
</style></head><body>
<div class="container">
<h2>Registration Form</h2>
<form action="#" method="post">
<div class="form-group">
<label for="firstName">First Name:</label>
<input type="text" id="firstName"
name="firstName" required>
</div>
<div class="form-group">
<label for="lastName">Last Name:</label>
<input type="text" id="lastName" name="lastName" required>
</div>
<div class="form-group">
<label for="email">Email:</label>
<input type="email" id="email" name="email" required>
</div>
<div class="form-group">
<label for="password">Password:</label>
<input type="password" id="password" name="password" required>
</div>
<div class="form-group">
<label for="dob">Date of Birth:</label>
<input type="date" id="dob" name="dob">
</div> <div class="form-group">
<label>Gender:</label>
<div class="gender-options">
<input type="radio" id="male" name="gender" value="male">
<label for="male">Male</label>
<input type="radio" id="female" name="gender" value="female">
<label for="female">Female</label>
</div> </div>
<div class="form-group">
<label for="country">Country:</label>
<select id="country" name="country">
<option value="usa">USA</option>
<option value="canada">Canada</option>
<option value="uk">UK</option>

```

```

<option value="india">India</option>
</select>
</div>
<div class="form-group">
<label for="bio">Bio:</label>
<textarea
id="bio" name="bio" rows="4">
</textarea>
</div>
<div class="button-group">
<input type="submit"
value="Register">
<input type="reset"
value="Reset">
</div>
</form>
</div>
</body>
</html>

```

```
5) <!DOCTYPE html>
<head>
  <title>Newspaper Page | vtucode</title>
  <style>* {
    margin: 0;
    padding: 0;
    box-sizing: border-box; }
  body {
    padding: 20px;
    font-family: 'Arial', sans-serif;
    color: #000000;
    display: flex;
    flex-direction: column;
    min-height: 100vh; }
  header {
    margin-bottom: 30px;
    border-radius: 10px;
    align-items: center;
    background-color: #7b38f7;
    color: #fff;
    padding: 20px;
    display: flex;
    justify-content: space-between;
    text-align: center;
    box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1); }
  header a {
    font-size: 25px;
    font-weight: 600;
    color: #fff;
    text-decoration: none; }
  nav {
    display: flex;
    gap: 20px;
    color: #fff;
    text-align: center; }
  nav a {
    font-size: 18px;
    color: #fff;
    text-decoration: none;
    font-weight: bold; }
  nav a:hover {
    text-decoration: underline;}
  .content {
    display: flex;
    justify-content: space-between;
    flex: 1;
    margin: auto;
    padding: 20px 0;
    gap: 20px;
    position: relative; }
  .main-content {
    cursor: pointer;
    flex: 1;
    display: grid;
```



```

    grid-template-columns: repeat(auto-fill, minmax(300px, 1fr));
    gap: 20px;
    background-color: #fff;
    border-radius: 12px;
    padding: 25px;
    box-shadow: rgba(9, 30, 66, 0.25) 0px 1px 1px, rgba(9, 30, 66, 0.13) 0px 0px 1px 1px; }
aside {
    border: 1px solid #ccc;
    padding: 20px;
    width: 350px;
    border-radius: 8px;
    box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
    position: -webkit-sticky;
    position: sticky;
    top: 20px;
    color: #333;
    right: 0;
    margin-left: 20px; }
.related-news h3 {
    text-align: center;
    border-radius: 7px;
    padding: 8px;
    background: #000;
    color: #ffffff;
    font-size: 1.4em;
    margin-bottom: 15px; }
.related-news ul {
    list-style: outside;
    padding: 7px;
    margin: 0; }
.related-news li {
    margin-bottom: 12px; }
.related-news a {
    text-decoration: none;
    color: #7b38f7;
    font-weight: bold;
    transition: color 0.3s ease; }
.related-news a:hover {
    text-decoration: underline; }
footer {
    border-radius: 10px;
    background-color: #7b38f7;
    color: #fff;
    padding: 20px;
    font-weight: 500;
    text-align: center;
    margin-top: auto;
    font-size: 18px; }
article {
    transition: all 0.3s ease;
    background-color: #fff;
    padding: 15px;
    box-shadow: rgba(9, 30, 66, 0.25) 0px 1px 1px, rgba(9, 30, 66, 0.13) 0px 0px 1px 1px;
    border-radius: 7px;

```

```

    color: #000000; }
figure {
    background-color: #fafafa;
    padding: 10px;
    border: 1px solid #ddd;
    border-radius: 8px;
    text-align: center;
    margin: 0; }
figcaption {
    font-size: 0.9em;
    color: #666z }
img {
    max-width: 100%;
    height: auto;
    border-radius: 8px; }
section {
    padding: 20px;
    width: 100%;
    background-color: #fff;
    border-radius: 8px;
    box-shadow: rgba(9, 30, 66, 0.25) 0px 1px 1px, rgba(9, 30, 66, 0.13) 0px 0px 1px 1px; }
section h2 {
    color: #fff;
    background: #000;
    font-size: 24px;
    border-radius: 10px;
    text-align: center;
    padding: 10px;
    margin-bottom: 30px; }
table {
    width: 100%;
    border-collapse: collapse; }
caption {
    font-size: 18px;
    margin-bottom: 10px;
    color: #555; }
thead {
    background-color: #007BFF;
    color: #fff; }
th, td {
    padding: 12px;
    text-align: left; }
th {
    font-weight: bold; }
tbody tr:nth-child(even) {
    background-color: #f9f9f9; }
tbody tr:hover {
    background-color: #eaeaea; }
@media (max-width: 600px) {
    th, td {
        padding: 8px;
        font-size: 14px; } }
caption {
    background-color: #d9d9d9;

```

```

padding: 10px;
font-weight: bold;
border-bottom: 2px solid #ddd;
border-radius: 8px 8px 0 0;
font-size: 1.1em;
color: #333; }
section {
margin-top: 40px;
margin-bottom: 50px; }
article h2 {
color: #7b38f7;
font-size: 1.3em;
margin-bottom: 12px; }
article p {
text-align: left;
line-height: 1.2;
margin-top: 10px; }
article:hover {
background-color: #e7ddfb; }
@media (max-width: 768px) {
.content {
flex-direction: column;
padding: 10px; }
aside {
width: 100%;
margin-top: 20px;
position: static;
margin-left: 0; }
.main-content {
grid-template-columns: 1fr; } }
</style></head><body> <header>
<a href="#">Newspaper</a>
<nav>
<a href="#">Home</a>
<a href="#">About</a>
<a href="#">Contact</a>
<a href="#">Services</a>
<a href="#">Marketing</a>
<a href="#">Updates</a>
</nav> </header>
<div class="content">
<main class="main-content">
<article> <h2>Article Title 1</h2>
<figure>

<figcaption>Image Caption</figcaption>
</figure> <p>This is the content of the first article. Lorem ipsum dolor sit amet, consectetur
adipiscing elitSed do eiusmod tempor incididunt ut labore et dolore magna aliqua.</p>
</article><article> <h2>Article Title 2</h2>
<figure>
<figcaption>Image Caption</figcaption>
</figure> <p>This is the content of the second article. Lorem ipsum dolor sit amet, consectetur
adipiscing elit.
Sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.</p>

```

```
</article> <article>
<h2>Article Title 3</h2>
<figure>

<figcaption>Image Caption</figcaption>
</figure>
<p>This is the content of the third article. Lorem ipsum dolor sit amet, consectetur adipiscing
elit.
Sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.</p>
</article> <article>
<h2>Article Title 4</h2>
<figure>

<figcaption>Image Caption</figcaption>
</figure>
<p>This is the content of the fourth article. Lorem ipsum dolor sit amet, consectetur adipiscing
elit.
Sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.</p>
</article>
<article>
<h2>Article Title 5</h2>
<figure>

<figcaption>Image Caption</figcaption>
</figure>
<p>This is the content of the fourth article. Lorem ipsum dolor sit amet, consectetur adipiscing
elit.Sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.</p>
</article><article>
<h2>Article Title 6</h2><figure>

<figcaption>Image Caption</figcaption>
</figure>
<p>This is the content of the fourth article. Lorem ipsum dolor sit amet, consectetur adipiscing
elit.Sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.</p>
</article></main>
<aside class="related-news">
<h3>Related News</h3><ul>
<li><a href="#">Related News 1</a></li>
<li><a href="#">Related News 2</a></li>
<li><a href="#">Related News 3</a></li>
</ul></aside></div>
<section><h2>Recent Posts</h2>
<div><table>
<caption>List of Posts</caption>
<thead><tr>
<th>Post Title</th>
<th>Date</th>
<th>Author</th>
</tr></thead>
<tbody><tr><td>Post 1</td>
<td>2024-08-30</td>
<td>Author 1</td>
</tr><tr><td>Post 2</td>
<td>2024-08-29</td>
```

```
<td>Author 2</td></tr>
<tr><td>Post 3</td>
<td>2024-08-28</td>
<td>Author 3</td>
</tr></tbody>
</table></div>
</section><footer>
<p>© 2024 Newspaper. All rights
reserved.</p>
</footer></body>
</html>
```

6)

```
<!DOCTYPE html>
<html> <head>
<title>Simple Calculator</title>
<style>
body {
font-family: Arial, sans-serif;
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
margin: 0;
}
.calculator {
background: #fff;
padding: 20px;
border-radius: 12px;
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
text-align: center;
}
h1 {
background: #000;
color: #fff;
padding: 10px;
border-radius: 8px;
}
input,
select,
button {
width: 100%;
margin: 10px 0;
padding: 12px;
border: 1px solid #ccc;
border-radius: 8px;
}
button {
background: #007bff;
color: #fff;
border: none;
cursor: pointer;
}
#result {
margin-top: 20px;
padding: 10px;
border-radius: 8px;
background: #e9f9ef; }
</style> </head>
<body>
<div class="calculator">
<h1>Simple Calculator</h1>
<input type="number" id="num1" placeholder="Enter first number">
<input type="number" id="num2" placeholder="Enter second number">
<select id="operation">
<option value="">Select Operation</option>
```

```

<option value="sum">Sum</option>
<option value="product">Product</option>
<option value="difference">Difference</option>
<option value="remainder">Remainder</option>
<option value="quotient">Quotient</option>
<option value="power">Power</option>
<option value="sqrt">Square Root</option>
<option value="square">Square</option>
</select>
<button onclick="calculate()">Calculate</button>
<div id="result"></div>
</div>
<script>
function calculate() {
const num1 = parseFloat(document.getElementById('num1').value);
const num2 = parseFloat(document.getElementById('num2').value);
const operation = document.getElementById('operation').value;
const resultDiv = document.getElementById('result');
let result;
if (isNaN(num1) || (isNaN(num2) && operation !== "sqrt" && operation !== "square")) {
result = "Please enter valid numbers.";
} else {
switch (operation) {
case "sum":
result = `Sum: ${num1 + num2}`;
break;
case "product":
result = `Product: ${num1 * num2}`;
break;
case "difference":
result = `Difference: ${num1 - num2}`;
break;
case "remainder":
result = `Remainder: ${num1 % num2}`;
break;
case "quotient":
result = num2 === 0 ? "Cannot divide by zero" : `Quotient: ${num1 / num2}`;
break;
case "power":
result = `Power: ${Math.pow(num1, num2)}`;
break;
case "sqrt":
result = `Square Root: ${num1 >= 0 ? Math.sqrt(num1) : "Invalid"} and ${num2 >= 0 ? Math.sqrt(num2) : "Invalid"}`;
break;
case "square":
result = `Square: ${num1 ** 2} and ${num2 ** 2}`;
break;
default:
result = "Select a valid operation.";
}
}
resultDiv.innerHTML = result;
}</script></body></html>

```

```
7) <!DOCTYPE html>
<head>
<script src="https://cdnjs.cloudflare.com/ajax/libs/crypto-js/4.1.1/crypto-js.min.js"></script>
<title>Simple Converter | vtucode</title>
<style>
* {
padding: 0;
margin: 0;
box-sizing: border-box;
}
body {
font-family: Arial, sans-serif;
color: #000000;
}
.container {
width: 60%;
margin: 0 auto;
padding: 20px;
}
.head-title h1 {
font-size: 28px;
padding: 10px;
color: #fff;
margin-bottom: 50px;
}
.head-title {
width: 100%;
background: #000;
text-align: center;
border-radius: 10px; }
.section {
margin-bottom: 40px;
padding: 20px;
border-radius: 8px;
background: #fff;
box-shadow: rgba(0, 0, 0, 0.1) 0px 1px 3px 0px, rgba(0, 0, 0, 0.06) 0px 1px 2px 0px;
transition: all 0.3s;
overflow: hidden;}
.section h2 {
color: #000000;
font-size: 20px;
margin-bottom: 15px;}
textarea {
font-size: 14px;
width: 100%;
height: 120px;
margin-bottom: 15px;
padding: 12px;
border-radius: 8px;
border: 1px solid #00000022;
```

```
box-sizing: border-box;
transition: border-color 0.3s ease, box-shadow 0.3s ease;}
textarea:focus {
background: transparent;
border: 1px solid #00000022;
border-color: #007BFF;
box-shadow: 0 0 12px rgba(0, 123, 255, 0.5);
outline: none;}
input[type="text"] {
width: calc(100% - 24px);
padding: 12px;
border-radius: 8px;
border: 1px solid #ddd;
box-sizing: border-box;
transition: border-color 0.3s ease, box-shadow 0.3s ease;
margin-bottom: 15px;}
input[type="text"]:focus {
border-color: #007BFF;
box-shadow: 0 0 8px rgba(0, 123, 255, 0.5);
outline: none;}
button {
display: inline-block;
padding: 15px 15px;
margin: 10px 0;
font-weight: 600;
border: none;
border-radius: 7px;
background-color: #007BFF;
color: #fff;
cursor: pointer;
font-size: 16px;
transition: box-shadow 0.3s ease, transform 0.3s ease;}
button:hover {
box-shadow: 0 0 0 2px #fff, 0 0 0 4px #007BFF;}
button:focus {
box-shadow: 0 0 0 2px #fff, 0 0 0 4px #007BFF;}
pre {
display: none;
background: #f8f9fa;
border: 1px solid #ddd;
padding: 15px;
border-radius: 8px;
overflow: auto;
transition: opacity 0.3s ease;}
.error {
margin-top: 10px;
font-size: 14px;
color: #000;
background: #ffdddd;
border-color: #ff0000;
padding: 10px;}
.success {
margin-top: 10px;
font-size: 14px;
```



```

color: #000;
background: #6ef08d38;
border-color: #47e56d;
padding: 10px;}
.adjust-area {
margin-top: 30px;
}</style></head>
<body>
<div class="container">
<div class="head-title">
<h1>Simple Converter</h1>
</div><div class="section">
<h2>1. Convert JSON Text to JavaScript Object</h2>
<textarea id="jsonInput" placeholder="Enter JSON here..."></textarea>
<button onclick="convertJsonToObject()">Convert JSON</button>
<pre id="jsonOutput" class="output"></pre>
</div><div class="section">
<h2>2. Convert JSON Results into Date</h2>
<textarea id="jsonDateInput" placeholder="Enter JSON with date in "yyyy-mm-dd"
format"></textarea>
<button onclick="convertJsonToDate()">Convert to Date</button>
<pre id="jsonDateOutput" class="output"></pre>
</div><div class="section">
<h2>3. Convert JSON to CSV and CSV to JSON</h2>
<textarea id="jsonCsvInput" placeholder="Enter JSON for CSV conversion..."></textarea>
<button onclick="convertJsonToCsv()">JSON to CSV</button>
<pre id="csvOutput" class="output"></pre>
<textarea id="csvInput" placeholder="Enter CSV here..." class="adjust-area"></textarea>
<button onclick="convertCsvToJson()">CSV to JSON</button>
<pre id="jsonCsvOutput" class="output"></pre>
</div>
<div class="section">
<h2>4. Create Hash from String</h2>
<input type="text" id="hashInput" placeholder="Enter string to hash">
<button onclick="createHash()">Create Hash</button>
<pre id="hashOutput" class="output"></pre>
</div></div>
<script>
function showResult(id, text, isSuccess) {
const element = document.getElementById(id);
element.textContent = text;
element.className = isSuccess ? 'success' : 'error';
element.style.display = 'block';
element.style.opacity = '1';
}

function convertJsonToObject() {
const jsonInput = document.getElementById('jsonInput').value;
try {
const jsonObject = JSON.parse(jsonInput);
showResult('jsonOutput', JSON.stringify(jsonObject, null, 2), true);
} catch (error) {
showResult('jsonOutput', 'Invalid JSON', false); } }
function convertJsonToDate() {

```

```

const jsonDateInput = document.getElementById('jsonDateInput').value;
try {
const data = JSON.parse(jsonDateInput);
if (data.date && !isNaN(new Date(data.date).getTime())) {
const date = new Date(data.date);
showResult('jsonDateOutput', date.toString(), true);
} else {
showResult('jsonDateOutput', 'Invalid Date Format', false); }
} catch (error) {
showResult('jsonDateOutput', 'Invalid JSON', false); } }
function convertJsonToCsv() {
const jsonInput = document.getElementById('jsonCsvInput').value;
try {
const jsonArray = JSON.parse(jsonInput);
if (Array.isArray(jsonArray) && jsonArray.length > 0) {
const keys = Object.keys(jsonArray[0]);
const csv = [
keys.join(','),
...jsonArray.map(row => keys.map(key => JSON.stringify(row[key])).join(','))
].join('\n');
showResult('csvOutput', csv, true);
} else {
showResult('csvOutput', 'Invalid JSON: Expected an array with objects.', false); }
} catch (error) {
showResult('csvOutput', 'Invalid JSON', false); } }
function convertCsvToJson() {
const csvInput = document.getElementById('csvInput').value;
try {
const lines = csvInput.trim().split('\n');
if (lines.length > 1) {
const keys = lines[0].split(',');
if (keys.length > 0) {
const jsonArray = lines.slice(1).map(line => {
const values = line.split(',');
return keys.reduce((obj, key, index) => {
obj[key] = values[index];
return obj;
}, {});
});
showResult('jsonCsvOutput', JSON.stringify(jsonArray, null, 2), true);
} else {
showResult('jsonCsvOutput', 'Invalid CSV: No columns found.', false); }
} else {
showResult('jsonCsvOutput', 'Invalid CSV: No data found.', false); }
} catch (error) {
showResult('jsonCsvOutput', 'Invalid CSV', false); } }
function createHash() {
const hashInput = document.getElementById('hashInput').value.trim();
if (hashInput.length > 0) {
const hash = CryptoJS.SHA256(hashInput).toString();
showResult('hashOutput', hash, true);
} else {
showResult('hashOutput', 'Input cannot be empty', false); } }
</script></body></html>

```

```
8a) <?php
$counterFile = "counter.txt";
if (!file_exists($counterFile)) {
    file_put_contents($counterFile, "0");
}
$currentCount = file_get_contents($counterFile);
$newCount = $currentCount + 1;
file_put_contents($counterFile, $newCount);
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Visitor Counter | vtucode</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            text-align: center;
            margin: 0;
            padding: 0;
            display: flex;
            flex-direction: column;
            justify-content: center;
            height: 100vh;
            background-color: #f4f4f9;
            color: #333;
        }
        .container {
            background: #fff;
            padding: 20px;
            box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
            border-radius: 8px;
            margin: 0 auto;
            width: 60%;
        }
        h1 {
            font-size: 2.5em;
            margin: 0;
        }
        p {
            font-size: 1.2em;
            color: #555;
        }
    </style></head>
<body>
    <div class="container">
        <h1>Welcome to Our Website!</h1>
        <p>You are visitor number: <strong><?php echo $newCount; ?></strong></p>
    </div>
</body>
</html>
```

```

8b) <?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "students";
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
die("Connection failed: " . $conn->connect_error); }
$sql = "SELECT * FROM students";
$result = $conn->query($sql);
$students = [];
if ($result->num_rows > 0) {
while ($row = $result->fetch_assoc()) {
$students[] = $row;}}
function selectionSort(&$arr, $key)
{ $n = count($arr);
for ($i = 0; $i < $n - 1; $i++) {
$minIndex = $i;
for ($j = $i + 1; $j < $n; $j++) {
if ($arr[$j][$key] < $arr[$minIndex][$key]) {
$minIndex = $j; } }
$temp = $arr[$i];
$arr[$i] = $arr[$minIndex];
$arr[$minIndex] = $temp; } }
selectionSort($students, 'name');
?> <!DOCTYPE html> <head>
<title>Sorted Student Records | vtucode</title>
<style> body {
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
background-color: #f0f2f5;
color: #333;
margin: 0; padding: 20px; }
h2 {
text-align: center;
color: #4A90E2;
margin-bottom: 20px;
} table {
width: 100%;
border-collapse: collapse;
background-color: #fff;
border-radius: 10px;
overflow: hidden;
box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1);
margin: 0 auto;
} th, td {
padding: 12px 15px;
text-align: left;
border-bottom: 1px solid #ddd;
} th {
background-color: #4A90E2;
color: white;
text-transform: uppercase;
letter-spacing: 0.03em;
} tr {

```

```

transition: background-color 0.3s ease; }
tr:hover {
background-color: #f1f1f1;
} td {
font-size: 0.9em;
color: #555; }
@media (max-width: 768px) {
table,
th, td {
display: block;
width: 100%; }
th, td {
box-sizing: border-box; }
tr {
margin-bottom: 15px;
display: block;
box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1); }
th {
position: absolute;
top: -9999px;
left: -9999px; }
td {
border: none;
position: relative;
padding-left: 50%;
text-align: right; }
td:before {
content: attr(data-label);
position: absolute;
left: 0; width: 50%;
padding-left: 15px;
font-weight: bold;
text-align: left;
text-transform: uppercase;
color: #4A90E2; } }
</style></head><body>
<h2>Sorted Student Records by Name</h2>
<table><thead><tr>
<th>ID</th>
<th>Name</th>
<th>USN</th>
<th>Branch</th>
<th>Email</th>
<th>Address</th>
</tr></thead><tbody>
<?php foreach ($students as $student): ?><tr>
<td data-label="ID"><?php echo htmlspecialchars($student['id']); ?></td>
<td data-label="Name"><?php echo htmlspecialchars($student['name']); ?></td>
<td data-label="USN"><?php echo htmlspecialchars($student['usn']); ?></td>
<td data-label="Branch"><?php echo htmlspecialchars($student['branch']); ?></td>
<td data-label="Email"><?php echo htmlspecialchars($student['email']); ?></td>
<td data-label="Address"><?php echo htmlspecialchars($student['address']); ?></td>
</tr> <?php endforeach; ?></tbody>
</table></body></html>

```

```
9) <!DOCTYPE html>
<head>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<title>jQuery Example | vtucode</title>
<style>body {
font-family: 'Roboto', sans-serif;
background-color: #f4f7f6;
margin: 0;padding: 0;
display: flex;
justify-content: center;
align-items: center;
height: 100vh; }
.container {
text-align: center;
background: #fff;
padding: 30px;
border-radius: 12px;
box-shadow: 0 4px 20px rgba(0, 0, 0, 0.1);
transition: transform 0.3s ease-in-out; }
.container:hover {
transform: scale(1.02); }
#paragraph {
margin-bottom: 20px;
color: #333;
font-size: 18px;
line-height: 1.5; }
#list {
margin-bottom: 20px;
list-style: none;
padding: 0; }
#list li {
background: #e8f0fe;
margin: 5px 0;
padding: 10px;
border-radius: 8px;
transition: background 0.3s; }
#list li:hover {
background: #d0e2fe; }
.box {
padding: 0 10px;
width: 100px;
height: 100px;
background-color: #007bff;
margin: 20px auto;
line-height: 100px;
color: white;
text-align: center;
border-radius: 8px;
transition: all 0.3s ease; }
button {
padding: 12px 24px;
margin: 10px;
cursor: pointer;
border: none;
```

```

border-radius: 6px;
font-size: 16px;
background: #007bff;
color: white;
transition: box-shadow 0.3s, transform 0.2s;
box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);
}
button:hover {
box-shadow: 0 0 2px #fff, 0 0 4px #007bff;
}
button:focus {
box-shadow: 0 0 2px #fff, 0 0 4px #007bff;
}
button:active {
background: #004494;
transform: translateY(0);
}
</style>
</head>
<body>
<div class="container">
<p id="paragraph">This is an existing paragraph.</p>
<ul id="list">
<li>List item 1</li>
<li>List item 2</li>
</ul>
<div class="box" id="box">Animate me!</div>
<button id="appendButton">Append Content</button>
<button id="animateButton">Animate Box</button>
</div>
<script>
$(document).ready(function () {
    $("#appendButton").click(function () {
        $("#paragraph").append(" Appended text.");
        $("#list").append("<li>New appended list item</li>");
    });
    $("#animateButton").click(function () {

        $("#box").stop(true, true).css({
            width: "100px",
            height: "100px",
            opacity: 1,
            backgroundColor: "blue"
        }).animate({
            width: "200px",
            height: "200px",
            opacity: 0.5
        }, 1000, function () {
            $(this).css("background-color", "green");
        });
    });
});
</script></body></html>

```

10) **.txt file** hi this is example text...

```
data.json    {"name":"John Doe","age":30,"city":"New
York","skills":["JavaScript","React","Node.js"],"address":{"street":"123 Elm
Street","zipcode":"10001"},"projects":[{"name":"Website
Redesign","year":2023,"technologies":["HTML","CSS","JavaScript"]}, {"name":"Mobile
App","year":2024,"technologies":["React Native","Expo"]}]}
```

```
Html    <!DOCTYPE html><head>
<title>AJAX Examples | vtucode</title>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<style>body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;background-color: #f4f4f9;
}h1 {
text-align: center;
color: #333;
padding: 20px 0;}
#content {
flex-direction: column;
display: flex;
max-width: 600px;
margin: 20px auto;
padding: 20px;
border: 1px solid #ddd;
border-radius: 8px;
background-color: #fff;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);}
button {display: inline-block;
padding: 10px 15px;
margin: 12px; border: none;
border-radius: 5px;
background-color: #007bff;
color: #fff; font-size: 16px;
cursor: pointer;
transition: box-shadow 0.3s;}
button:hover {
box-shadow: 0 0 2px #fff, 0 0 4px #007bff;}
button:focus { box-shadow: 0 0 2px #fff, 0 0 4px #007bff;}
#output {display: none;
margin-top: 20px;
padding: 10px;
border-radius: 5px;
white-space: pre-wrap;
max-height: 300px;
overflow-y: auto;}
#output.plain-ajax {
background-color: #f0f8ff;
border: 1px solid #b0c4de;}
#output.jquery-ajax {
background-color: #f5fffa;
border: 1px solid #98fb98;}
#output.jquery-json {
background-color: #fffaf0;
border: 1px solid #ffd700;}
```



```

#output.parse-json {
background-color: #fff0f5;
border: 1px solid #ff69b4;
}</style></head><body>
<h1>AJAX Examples</h1>
<div id="content">
<button id="plain-ajax-btn">Load Text (Plain AJAX)</button>
<button id="jquery-ajax-btn">Load Text (jQuery AJAX)</button>
<button id="jquery-json-btn">Load JSON (jQuery getJSON)</button>
<button id="parse-json-btn">Load and Parse JSON (jQuery get)</button>
<div id="output"></div></div><script>
function showOutput(className) {
const output = document.getElementById('output');
output.className = className;
output.style.display = 'block';
document.getElementById('plain-ajax-btn').addEventListener('click', function () {
var xhr = new XMLHttpRequest();
xhr.open('GET', 'textfile.txt', true);
xhr.onload = function () {
if (xhr.status === 200) {
document.getElementById('output').innerText = xhr.responseText;
} else {
document.getElementById('output').innerText = 'Error loading file.';
}
showOutput('plain-ajax');
};
xhr.send();
});
$('#jquery-ajax-btn').on('click', function () {
$.ajax({url: 'textfile.txt',
method: 'GET',
success: function (data) {
$('#output').text(data);
},
error: function () {
$('#output').text('Error loading file.');
}).always(function () {
showOutput('jquery-ajax');
});
});
$('#jquery-json-btn').on('click', function () {
$.getJSON('data.json')
.done(function (data) {
$('#output').text(JSON.stringify(data, null, 2));
}).fail(function () {
$('#output').text('Error loading JSON file.');
}).always(function () {
showOutput('jquery-json');
});
});
$('#parse-json-btn').on('click', function () {
$.get('data.json')
.done(function (data) {
try { let jsonData;
if (typeof data === 'string') {
jsonData = JSON.parse(data);
} else {
jsonData = data;
}
$('#output').text(JSON.stringify(jsonData, null, 2));
} catch (e) {
$('#output').text('Error parsing JSON: ' + e.message);
}
}
}

```

```

.fail(function () {
$('#output').text('Error loading JSON
file.');
}).always(function () {
showOutput('parse-json');
});
</script></body></html>

```

