

```

1.<!Doctype Html>
<html>
<head>
<style>
h1{text-align: center;}
h2{text-align: center;}
h3{text-align: center;}
h4{text-align: center;}
h5{text-align: center;}
h6{text-align: center;}
</style>
<title>My First Web page</title>
</head>
<body>
<Marquee><b><a
href="https://youtube.com/@ipled
it?si=mG_BuhgElszqo5ZA">
Basic HTML Tags</a>
</b></Marquee>
<h1 style="color:blue;">VTU
</h1>
<h2 style="color:red;">Sapthagiri
College of engineering </h2>
<h3 style="color:green;">Dept. of
CSE</h3>
<h4 style="color:blue;">Prajwal
P</h4>
<h5
style="color:brown;">1SG22CS06
8</h5>

```

```

<h3 style="color:brown;">Essay
on AI</h3>
<blockquote><p><mark><i>Artif
icial intelligence (AI)</i></mark>
in its broadest sense, is
intelligence exhibited by
machines, particularly
<u>computer
systems</u><sup>[1]</sup>.<br>
<hr>It <del>not</del> is a
<ins>field of research in computer
science</ins> that develops and
studies methods and
<strong>software</strong> that
enable machines to perceive their
environment<br><hr> and use
learning and
<small>intelligence</small> to
take actions that maximize their
chances of achieving defined
goals<sub>[2]</sub>.Such
machines may be called
AIs.</p><hr></blockquote>
<pre>The various subfields of
Artificial intelligence (AI)
research are centered around
particular goals and the use of
particular tools.</pre>
</body>
</html>

```

```

2. <!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport"
content="width=device-width,
initial-scale=1.0">
<title>Time Table</title>
</head>  <body> <table> <thead>
<tr>
<th colspan="7">Class Time
Table</th>
</tr>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>  <tbody>
<tr>
<td>9:00 - 10:00</td>
<td>Math</td>
<td>English</td>
<td>Science</td>
<td>History</td>
<td>Geography</td>
<td rowspan="6">No Classes</td>
</tr>
<tr class="odd-row">
<td>10:00 - 11:00</td>
<td>Physics</td>
<td>Chemistry</td>
<td>Biology</td>
<td class="elective-hours">Computer
Science</td>

```

```

<td class="elective-hours">Art</td>
</tr>
<tr>
<td>11:00 - 12:00</td>
<td class="lab-hours"
colspan="2">Physics Lab</td>
<td class="lab-hours"
colspan="2">Chemistry Lab</td>
<td class="lab-hours">Biology
Lab</td>
</tr>
<tr class="odd-row">
<td>12:00 - 13:00</td>
<td class="lunch" colspan="5">Lunch
Break</td>
</tr>
<tr>
<td>13:00 - 14:00</td>
<td>Literature</td>
<td>Math</td>
<td>English</td>
<td>Physics</td>
<td>Chemistry</td>
</tr>
<tr class="odd-row">
<td>14:00 - 15:00</td>
<td class="elective-hours">Music</td>
<td class="elective-hours">Drama</td>
<td class="lab-hours"
colspan="3">Computer Lab</td>
</tr>
</tbody> <tfoot>
<tr>
<td colspan="7">* Lab hours are
highlighted in pink, elective hours in
light green</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
vtucode.in 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">Th
is is a special paragraph
with unique styles applied
through an ID
selector.</p>
</body> </html>

```

4. <!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>
</head> <body>
<h1>Registration Form</h1>
<form action="#" method="post">
<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>
<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>
<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>
<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>

```

```

5. <!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>
</head>
<body>
<header>
<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>


```

```

<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>
<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>
<ul>
<li>City Festival - This Weekend</li>
<li>Tech Conference - Next Month</li>
<li>Charity Run - In Two Weeks</li>
</ul>
</aside> </main> <footer>
<p>&copy; 2023 The Daily Chronicle.
All rights reserved.</p>
</footer> </body> </html>

```

```

6. <!DOCTYPE html>
<head>
<title>Simple Calculator | vtucode</title>
</head> <body>
<div class="calculator">
<h1>Simple Calculator</h1>
<form id="calculator-form">
<input type="number" id="num1"
placeholder="Enter first number" required>
<input type="number" id="num2"
placeholder="Enter second number"
required>
<select id="operation" required>
<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 type="button"
onclick="calculate()">Calculate</button>
</form> <div id="result"></div>
</div> <script>
function calculate() {
const num1 =
parseFloat(document.getElementById('num
1').value);
const num2 = parseFloat(document.
getElementById('num2').value); const
operation =document.
getElementById('operation').value;
let result = ' ';
let resultClass = 'success';
if (isNaN(num1) || isNaN(num2)) {
result = 'Please enter valid numbers.';
resultClass = 'error';

```

```

} 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':
if (num2 === 0) {
result = 'Cannot divide by zero';
resultClass = 'error';
} else { result = `Quotient: ${num1 /
num2}`;
} break;
case 'power':
result = `Power: ${Math.pow(num1,
num2)}`;
break;
case 'sqrt':
if (num1 < 0 || num2 < 0) {
result = 'Square root is not defined for
negative numbers'; resultClass = 'error'; }
else { result = `Square Root of ${num1}:
${Math.sqrt(num1)} <br> Square Root of
${num2}: ${Math.sqrt(num2)}`; } break;
case 'square':
result = `Square of ${num1}:
${Math.pow(num1, 2)} <br> Square of
${num2}: ${Math.pow(num2, 2)}`;
break; default:
result = 'Please select an operation.';
resultClass = 'error'; }}
const resultDiv =document.
getElementById('result');
resultDiv.innerHTML = result;
resultDiv.classList.remove('show', 'error',
'success');
resultDiv.classList.add(resultClass, 'show');
} </script> </body> </html>

```

```

8a . <!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>
</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>";
echo "<p>You are visitor number:
$count</p>";
?> </div> </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 |
vtu code</title>
</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>

```
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport"
content="width=device-width,
initial-scale=1.0">
<title>jQuery Append, Animate,
and Color Change Demo</title>
</head>
<body>
<div class="container">
<h1>jQuery Demonstration</h1>
<h2>a. Append Content</h2>
<p id="existingParagraph">This
is an existing paragraph. </p>
<ul id="existingList">
<li>Existing item 1</li>
<li>Existing item 2</li>
</ul>
<button
id="appendButton">Append
Content</button>
<h2>b. Animate Element</h2>
<div id="animateBox"
class="box"></div>
<button
id="animateButton">Animate
Box</button>
<h2>c. Change Color of
Animated Div</h2>
<div id="colorBox"
class="box"></div>
```

```
<button
id="colorAnimateButton">Anim
ate and Change Color</button>
</div>
<script>
$(document).ready(function() {
$("#appendButton").click(function() {
$("#existingParagraph").append("
This content is appended.");
$("#existingList").append("<li>A
ppended item</li>"); });
$("#animateButton").click(function() {
$("#animateBox").animate({
width: "200px",
height: "200px",
opacity: 0.5
}, 1000); });
$("#colorAnimateButton").click(function() {
$("#colorBox").animate({
width: "200px",
height: "200px" }, {
duration: 1000,
step: function(now, fx) {
if (fx.prop === "width") {
$(this).css("background-color",
`rgb(${Math.round(now)}, 52,
219)`); } } }); });
</script>
</body>
</html>
```


10. <!DOCTYPE html>

```
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport"
content="width=device-width,
initial-scale=1.0">
<title>Ajax Demo Program</title>
<script
src="https://cdnjs.cloudflare.com/ajax/li
bs/jquery/3.6.0/jquery.min.js"></script>
</head>
<body>
<div class="container">
<h1>Ajax Demo Program</h1>
<h2>a. Ajax-like operation without
jQuery</h2>
<button
onclick="operationWithoutjQuery()">P
erform Operation (without
jQuery)</button>
<pre id="result-a"></pre>
<h2>b. Ajax-like operation with
jQuery</h2>
<button
onclick="operationWithjQuery()">Perf
orm Operation (with jQuery)</button>
<pre id="result-b"></pre>
<h2>c. jQuery-like getJSON()
method</h2>
<button
onclick="getJSONOperation()">Get
JSON</button>
<pre id="result-c"></pre>
<h2>d. jQuery parseJSON()
method</h2>
<button
onclick="parseJSONExample()">Parse
JSON</button>
```

```
<pre id="result-d"></pre>
</div> <script>
const simulatedData = {
text: "This is a sample text from a
simulated server response.",
json: {
name: "John Doe", age: 30,
city: "New York" } };
function operationWithoutjQuery() {
setTimeout(function() {
document.getElementById("result-a").te
xtContent = simulatedData.text; }, 500);
}
function operationWithjQuery() {
$.Deferred(function(deferred) {
setTimeout(function() {
deferred.resolve(simulatedData.text);
}, 500);
}).done(function(result) {
$("#result-b").text(result); }); }
function getJSONOperation() {
$.Deferred(function(deferred) {
setTimeout(function( ) {
deferred.resolve(simulatedData.json);
}, 500);
}).done(function(result) {
$("#result-c").text(JSON.stringify(result
, null, 2)); }); }
function parseJSONExample() {
var jsonString =
JSON.stringify(simulatedData.json);
var jsonObject =
$.parseJSON(jsonString);
$("#result-d").text(JSON.stringify(json
Object, null, 2)); }
</script>
</body>
</html>
```

```

7. <!DOCTYPE html><html lang="en">
<head><title>JSON/CSV Converter and
Hash Generator</title> <script
src="https://cdnjs.cloudflare.com/ajax/libs/c
rypto-js/4.1.1/crypto-js.min.js"></script>
</head> <body> <div class="container">
<h1>JSON/CSV Converter and Hash
Generator</h1> <h2>
(a) Convert JSON to JavaScript Object</h2>
<textarea id="jsonInput" placeholder="Enter
JSON here"> </textarea><button
onclick="convertJsonToObject()">Convert
to Object</button> <h2> (b) Convert
JSON to Date</h2> <textarea
id="jsonDataInput" placeholder="Enter
JSON date string (e.g., {"date":
"2023-05-15T12:00:00Z"})"> </textarea>
<button onclick="convertJsonToDate()">
Convert to Date</button> <h2> (c) Convert
JSON to CSV and CSV to JSON</h2>
<textarea id="dataInput" placeholder="Enter
JSON or CSV here"> </textarea> <button
onclick="convertJsonToCsv()">JSON to
CSV</button> <button
onclick="convertCsvToJson()">CSV to
JSON</button> <h2> (d) Create Hash from
String </h2> <textarea id="hashInput"
placeholder="Enter string to hash">
</textarea><button onclick="createHash()">
Generate Hash</button> <div id="result">
</div> </div> <script> function
convertJsonToObject( ) { try { const
jsonInput = document
.getElementById('jsonInput').value;
const jsObject = JSON.parse(jsonInput);
document.getElementById('result').innerTex
t = 'Converted Object: ' + JSON.stringify
(jsObject, null, 2); } catch (error) {
document.getElementById('result').innerTex
t = 'Error: ' + error.message; } }
function convertJsonToDate( ) { try {
const jsonInput = document.getElementById
('jsonDataInput').value ; const jsObject =
JSON.parse(jsonInput);

```

```

const date = new Date(jsObject.date);
document.getElementById('result').innerTex
t = 'Converted Date: ' + date.toString(); }
catch (error) { document.getElementById
('result').innerText = 'Error: ' +
error.message; } }
function convertJsonToCsv( ) { try {
const jsonInput = document.getElementById
('dataInput').value ; const jsObject =
JSON.parse(jsonInput) ; const headers =
Object.keys(jsObject[0]);const csvRows =
[ headers.join(','), ...jsObject.map(row =>
headers.map(fieldName =>
JSON.stringify(row[fieldName])).join(',') ) ];
const csvString = csvRows.join('\n');
document.getElementById('result').innerTex
t = 'Converted CSV:\n' + csvString; } catch
(error) { document.getElementById
('result').innerText = 'Error: ' +
error.message; } }
function convertCsvToJson( ) { try {
const csvInput = document.getElementById
('dataInput').value ; const lines =
csvInput.split('\n') ; const headers =
lines[0].split(',') ; const jsonArray =
lines.slice(1).map(line=>{ const values =
line.split(','); return headers.reduce( (obj,
header, index) => { obj[header] = values[
index ]; return obj; } , { } ) ; } ) ;
document.getElementById('result').innerTex
t = 'Converted JSON:\n' + JSON.stringify
(jsonArray, null, 2); } catch (error) {
document.getElementById('result').innerTex
t = 'Error: ' + error.message; } }
function createHash( ) { try { const input =
document.getElementById
('hashInput').value; const hash =
CryptoJS.SHA256(input);
document.getElementById('result').innerTex
t = 'Generated Hash (SHA-256): ' + hash;
} catch (error) { document.getElementById
('result').innerText = 'Error: ' +
error.message; } }
</script> </body> </html>

```