



KSSEM
K.S. SCHOOLS OF ENGINEERING AND MANAGEMENT

K.S. GROUP OF INSTITUTIONS

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

#15, Mallasandra, Near Vajarahalli, Off. Kanakapura Road, Bengaluru - 560 109

PRACTICAL RECORD BOOK

NAME : DISHA . S

Class : 5th SEM, CSE 'A'

Lab : WEB TECHNOLOGY

USN :

1	K	G	2	2	C	S	0	2	1
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KSSEM
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

Laboratory Certificate

This is to certify that

Mr. / Ms. ... DISHA . S
has satisfactorily completed the course of experiment in
... WEB TECHNOLOGY Laboratory, Code BCSL504
Prescribed by Visvesvaraya Technological University, Belagavi
for the 5th Semester B.E. C.S. branch in this
college during in the academic year 20 ..24... - 20 ..25...

Name of the Candidate : DISHA . S

USN : 1KG22CS034 Lab (with code) BCSL504

Marks	
Maximum	Obtained
50	48

[Signature]
Signature of the
Teacher

Date : 18/12/2024

[Signature]
Head of the Department
HOD

Department of Computer Science Engineering
K.S. School of Engineering & Management
Bangalore-560109

Particulars of the Experiments Performed

CONTENTS

Expt. No.	Date	Title of the Experiment	Page No.	Marks Awarded	Remarks
1	24/9/24	Develop HTML page named 'My Home Webpage.html'	1-3	10	10/24
2	15/10/24	Develop HTML page named 'HTML tables.html'	4-8	10	10/24
3	22/10/24	Develop external style sheet & give style for tags	9-13	10	10/24
4	22/10/24	Develop HTML page named "Registration.html"	14-18	10	10/24
5	5/11/24	Develop HTML page named "Newspaper.html"	19-25	10	10/24
6	5/11/24	Apply HTML, CSS, JAVASCRIPT to develop simple calculator.	26-29	10	10/24
7	12/11/24	Develop Javascript program to convert text to object, CSV etc.	30-35	10	10/24
8a	12/11/24	php program to keep track of no. of visitors	36-37	} 5	
b	12/11/24	php program to sort the student record	37-40		10/12/24
9	19/11/24	JQuery script to append content, state color.	41-44	10	10/12/24
10	19/11/24	Javascript program with ajax	45-49	10	10/12/24
Completed					
R - 10					
O - 5					
V - 5					
Ans1 + Ans2 - 10					
IA - 18					
48/50					

⇒ Using XAMPP server and VS code

1. Open XAMPP server and activate MySQL and Apache server.
2. VS code → File → Open folder → This PC → Local Disk C → XAMPP folder → ht docs → Create new folder with your USN.
3. Local Disk C → XAMPP folder → ht docs → dashboard → index (right click) → Open with notepad → Find phpmyadmin line and copy it and paste. Change it to your folder name.

⇒ To run the code

1. Go to google and search local host
2. Select your folder
3. Click on the file you want to run.

AIM:

Develop the HTML page named as "MyFirstWebPage.html". Add the following tags with relevant content.

1. Set the title of the page as "My First Web Page."
2. Within the body use the following tags.
 - a. Moving text = 'Basic HTML tags'.
 - b. Different heading tags (h1 to h6)
 - c. Paragraph
 - d. Horizontal lines
 - e. Line breaks
 - f. Block Quote
 - g. Poie tag
 - h. Different logical style (, <u>, <sub>, <sup>)

SOURCE CODE:

```
<html>
```

```
<head>
```

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

```
<style>
```

```
body {
```

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

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

```
margin: 0;
```

```
padding: 20px;
```

```
}
```

```
</style>
```


</head>

<body>

<marquee style="color: crimson"> Basic HTML
tags </marquee>

<h1> This is my first HTML code. </h1>

<h2> We are under the heading tag. </h2>

<h3> There are 6 heading tags </h3>

<h4> H1 is the largest </h4>

<h5> H6 is the smallest </h5>

<h6> This is the last heading tag </h6>

<p> My name is Disha S. I am from Bangalore.

My native is Mandya. My mother tongue is
Kannada. </p>

<hr>

<p> I am currently doing my Engineering at
KSSEM college.
 I am in 5th semester.

Learning about Web development </p>

<blockquote>

Web development includes Frontend and
Backend. The frontend uses three languages
HTML, CSS, Javascript.

</blockquote>

<pre>

Computer Networks

Computer Graphics

Software Engineering

Research Methodology

DATE 24/9/24
EXP. NO. 1

EXPT TITLE: Develop the HTML page named as 'My first Web Page.html' and use different tags

PAGE NO. 3

Theory of Computation
Environmental Studies
Web Technology lab

</pre>

<p> Here are examples of logical styles:

 Likitha

<i> Diya </i>

<u> Disha </u>

 Deekshitha

 Ananya

$11 ₂ 0
$

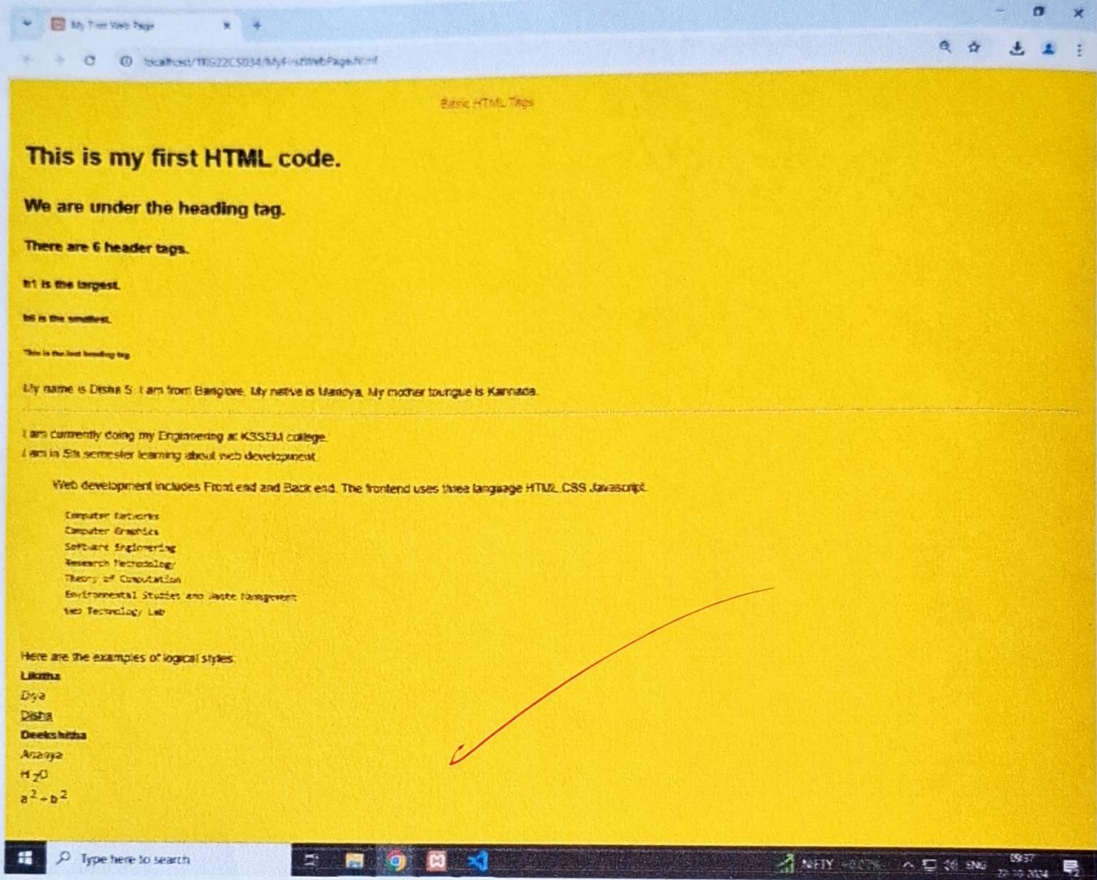
$a ² + b ²
$

</body>

</html>

22/10/24

	Max	Obtained
Record	15	
Observation	10	
Viva	5	
Total	30	



HTML tags - <h1> <h2> <h3> <h4> <h5> <h6>

Computer Networks

Computer Graphics

Software Engineering

Research Methodology

AIM:

Develop the HTML page named as "HTML tables.html" to display your class timetable.

- Provide the title as Time Table with table header and table footer, row-span and col-span etc.
- Provide various color options to the cells (Highlight the Web hours and elective hours with different colors.)
- Provide color options for rows.

SOURCE CODE :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title> Time Table </title>
  <style>
    body {
      font-family: Arial, sans-serif;
      line-height: 1.6;
      margin: 0;
      padding: 20px;
    }
    table {
      width: 100%;
      border-collapse: collapse;
    }
```



```
th, td {
```

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

```
padding: 8px;
```

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

```
}
```

```
th {
```

```
background-color: #f2f2f2;
```

```
}
```

```
.lab-hours {
```

```
background-color: #c0b4db;
```

```
}
```

```
.elective-hours {
```

```
background-color: #ffc8dd;
```

```
}
```

```
.tea {
```

```
background-color: #d0f4de;
```

```
}
```

```
.lunch {
```

```
background-color: #bde0fe;
```

```
}
```

```
.odd-row {
```

```
background-color: #f8f8f8;
```

```
}
```

```
.tfoot {
```

```
background-color: #e6e6e6;
```

```
font-weight: bold;
```

```
}
```



```
</style>
```

```
</head>
```

```
<body>
```

```
<table>
```

```
<thead>
```

```
<tr>
```

```
<th colspan = "10" > Class Time Table </th>
```

```
</tr>
```

```
<tr>
```

```
<th> Day </th>
```

```
<th> 8:40 - 9:35 </th>
```

```
<th> 9:35 - 10:30 </th>
```

```
<th> 10:30 - 10:45 </th>
```

```
<th> 10:45 - 11:40 </th>
```

```
<th> 11:40 - 12:35 </th>
```

```
<th> 12:35 - 1:20 </th>
```

```
<th> 1:20 - 2:10 </th>
```

```
<th> 2:40 - 3:00 </th>
```

```
<th> 3:00 - 3:50 </th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<tr>
```

```
<td> <b> Monday </b> </td>
```

```
<td> Software Engineering </td>
```

```
<td> Computer Graphics </td>
```

```
<td class = "tea" > Tea Break </td>
```



```

<td> Computer Network </td>
<td> Research Methodology </td>
<td colspan="6" class="lunch"> Lunch
                        Break </td>
<td colspan="3" class="lab-hours"> CN Lab </td>
</tr>
<br class="odd-row">
<td><b> Tuesday </b></td>
<td colspan="4" class="lab-hours"> Web
                        lab </td>
<td> Software Engineering </td>
<td> Research Methodology </td>
<td> Theory of Computation </td>
<td> Computer Network </td>
</tr>
<br>
<td><b> Wednesday </b></td>
<td> Software Engineering </td>
<td> Theory of Computation </td>
<td class="tea"> Tea Break </td>
<td> Theory of Computation </td>
<td> Environmental Science </td>
<td> Research Methodology </td>
<td> Computer Graphics </td>
<td> Computer Network </td>
</tr>

```



```
<tr class="odd-row">
```

```
<td><b>Thursday </b></td>
```

```
<td colspan="4" class="lab-hours">Mini project  
</td>
```

```
<td> computer graphics </td>
```

```
<td> Environmental studies </td>
```

```
<td> Computer Network </td>
```

```
<td> Research Methodology </td>
```

```
</tr>
```

```
<tr>
```

```
<td><b>Friday </b></td>
```

```
<td> Computer Graphics </td>
```

```
<td> theory of Computation </td>
```

```
<td class="Tea"> Tea Break </td>
```

```
<td> Theory of Computation </td>
```

```
<td> Software Engineering </td>
```

```
<td colspan="3" class="elective hours">
```

```
NSS/PE/YOGA </td>
```

```
</tr>
```

```
</tbody>
```

```
</tfoot>
```

```
</table>
```

```
<td colspan="10"> Lab hours are
```

```
highlighted in purple, elective hours  
in pink </td>
```

```
</tr>
```

```
</tfoot>
```

```
</table>
```

```
</body>
```

```
</html>
```

22/10/24

OUTPUT :

Class Time Table									
Day	8:40-9:35	9:35-10:30	10:30-10:45	10:45-11:40	11:40-12:35	12:35-1:20	1:20-2:10	2:10-3:00	3:00-3:50
Monday	Software Engineering	Computer Graphics	Tea break	Computer Network	Research Methodology	Lunch break	CN lab		
Tuesday	Web lab				Software Engineering		Research Methodology	Theory of computation	Computer Network
Wednesday	Software Engineering	Theory of computation	Tea break	Theory of computation	Environmental science		Research Methodology	Computer Graphics	Computer Network
Thursday	Mini project				Computer Graphics		Environmental science	Computer Network	Research Methodology
Friday	Computer Graphics	Theory of computation	Tea break	Theory of computation	Software Engineering		Tutorial	NSS/PE/YOGA	
Saturday	AS PER CALENDAR OF EVENTS - DISHA S								

*Lab hours are highlighted in purple, elective hours in pink

AIM:

Develop an external style sheet named as "style.css" and provide different styles for h2, h3, hr, p, div, span, time, img & a tags. Apply different CSS selectors for tags & demonstrate the significance of each.

CODE:

```
<!DOCTYPE html>
<html lang = "en">
<head>
  <title> Sample Styled Page (No Div) </title>
  <link rel = "stylesheet" href = "style.css">
</head>
<body>
  <main id = "main-content">
    <h2> Welcome to our styled Page </h2>
    <p> This is a paragraph right after an h2.
    It demonstrates adjacent sibling selector </p>
    <h3> Hover over me </h3>
    <hr>
    <p lang = "en"> This paragraph has a long
    attribute demonstrating attribute selector </p>
    <p> Here's a <span class = "highlighted">
    highlighted </span> word using class
    selector </p>
  </section>
```



```
<p> This paragraph is inside a section,  
    showing descendant selector </p>  
<span> This is direct child of section</span>  
</section>  
  
<p> The current date & time: <time datetime =  
    "2023-08-31"> September 13, 2024 </time> </p>  
  
<p> Notice how first letter of each para is  
    styled differently </p>  
<article class = "special">  
    <p> This para is inside an article with  
        class = "special " </p>  
</article>  
  
<img src = "http://img link alt = " A placeholder">  
<p> link <a> to see the updates in kssem </p>  
</main>  
</body>  
</html>
```

Style.css

h2 {

color: # 2c3e50;

Font-family: 'Arial', sans-serif;

border-bottom: 2px solid # 3498db;

padding-bottom: 10px;

}

h3: hover {

color: #e74c3c;

cursor: pointer;

transition: color 0.3s ease;

}

hr {

border: 0;

height: 1px;

background-image: linear-gradient(to right,

rgba(0,0,0,0), rgba(0,0,0,0.75),

rgba(0,0,0,0));

}

p[lang] {

font-style: italic;

}

.highlight {

background-color: #f1c40f;

padding: 5px;

}

~~#main-content {~~

max-width: 800px;

margin: 0 auto;

padding: 20px;

}


```
div p {  
    line-height : 1.6;  
    margin-bottom : 15px;  
}
```

```
div > span {  
    font-weight : bold;  
    color : #16a085;  
}
```

```
h2+p {  
    font-size : 1.1em;  
    color : #7f8c8d;  
}
```

```
time [datetime] {  
    color : #8e44ad;  
    font-weight : bold;  
}
```

```
img, a {  
    border : 1px solid #bdc3c7;  
    padding : 5px;  
}
```

```
a:link, a:visited {  
    color : #3498db;
```



```
}  
text-decoration: none;  
}
```

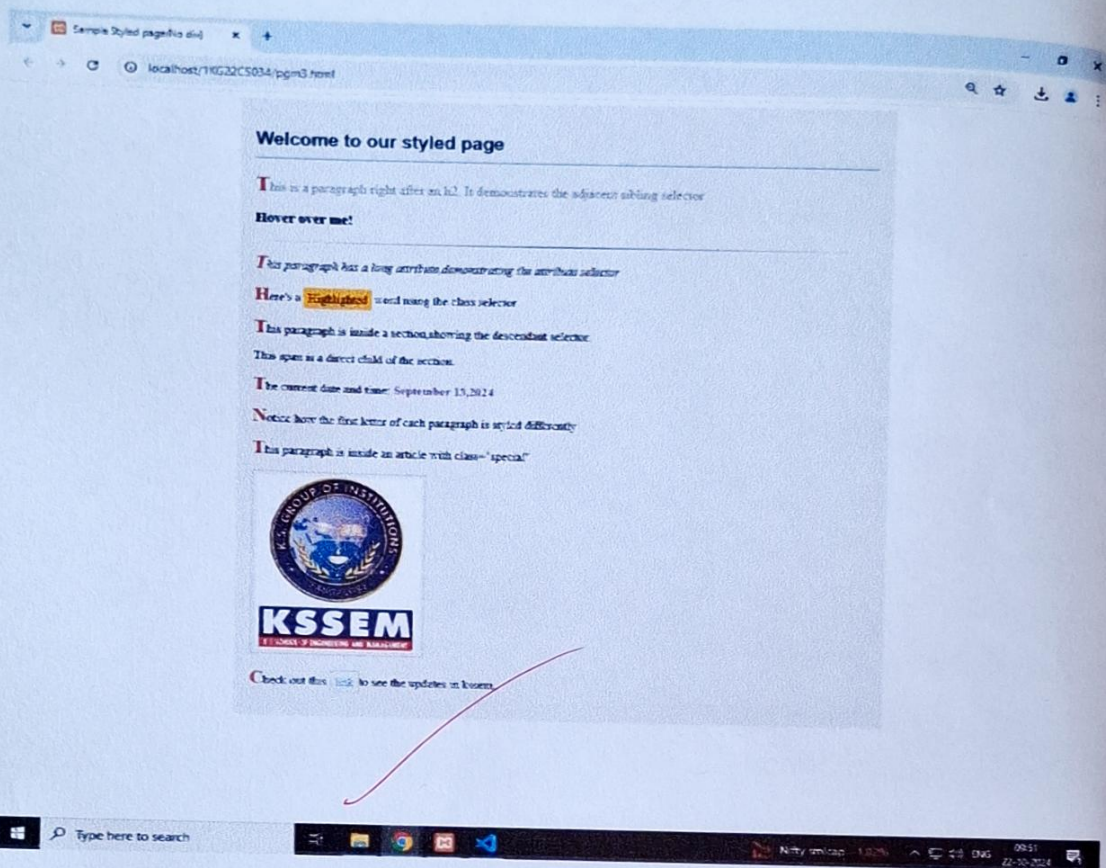
```
a: hover, a: active {  
color: #e74c3c;  
text-decoration: underline;  
}
```

```
img[alt] {  
max-width: 100%;  
height: auto;  
}
```

```
div.special p {  
text-indent: 20px;  
color: #27ae60;  
}
```

~~22/11/24~~
5/11/24

OUTPUT :



AIM :

Develop HTML page named as "registration. html" having variety of HTML input elements with background colour, table for alignment & provide font colour & size using CSS styles.

SOURCE CODE :

```
<html>
```

```
<head>
```

```
<title> Registration form </title>
```

```
<style>
```

```
body {
```

```
font-family: Arial;
```

```
background-color: #f0f0f0;
```

```
margin: 0;
```

```
padding: 20px;
```

```
}
```

```
h1 {
```

```
color: #333;
```

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

```
}
```

```
table {
```

```
width: 100%;
```

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

```
margin: 0 auto;
```

```
padding: 20px;
```

```
background-color: #c0c0c0;
```

```
}
```


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

font-size: 16px;

}

input [type="radio"], input [type="checkbox"] {

margin-right: 5px;

}

input [type="submit"] {

background-color: #4CAF50;

color: white;

border: none;

cursor: pointer;

font-size: 18px;

}

input [type="submit"]:hover {

background-color: #45a049;

}

. error {

color: #ff0000;

}

</style>

</head>

<body>

<h1>Registration form </h1>

<form method="post">

<table>

<tr>

<td><label for="fullname">Fullname: </label></td>

<td><input type="text" id="fullname"> </td>

</tr>

<tr>

<td><label for="email">Email: </label></td>

<td><input type="email" id="email"> </td>

</tr>

<tr>

<td><label for="password">Password: </label></td>

<td><input type="password" id="password"> </td>

</tr>

<tr>

<td><label for="confirm-pswd">Confirm </label></td>

<td><input type="password" id="confirm-pswd"> </td>

</tr>

<tr>

<td><label> Gender: </label></td>

<td>

<input type="radio" id="male" name="gender">

<label for="male"> Male </label>


```
<input type="radio" id="female" name="gender">
<label for="female"> Female </label>
<input type="radio" id="other" name="gender">
<label for="other"> Other </label>
</td>
```

```
</tr>
```

```
<tr>
```

```
<td><label for="birthdate"> Date of Birth: </label></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="ind"> India </option>
  <option value="usa"> USA </option>
  <option value="canada"> Canada </option>
  <option value="other"> Other </option>
</select>
```

```
</td>
```

```
</tr>
```

```
<tr>
```

```
<td><label for="interest"> Interest: </label></td>
<td>
```

```
<input type="checkbox" id="sports">
<label for="sports"> Sports </label>
<input type="checkbox" id="music">
```


DATE 22/10/24

EXP. NO. 4

EXPT TITLE: Develop HTML page named
registration.html

PAGE NO.

17

```
<label for="music"> Music </label>  
<input type="checkbox" id="reading">  
<label for="reading"> Reading </label>  
</td>
```

```
</tr>
```

```
</table>
```

```
</form>
```

```
</body>
```

```
</html>
```

5/11/24

OUTPUT :

Registration Form

Full Name: Disha S
Required

Email: disha.sethi2004@gmail.com
Required

Password:
Required

Confirm Password:
Required

Gender: ☐ Male ☐ Female ☐ Other

Date of Birth: 13-12-2004

Country: India

Interests: ☐ Sports ☐ Music ☐ Reading ☐ Travel

Bio: hey!

Register

AIM:

Develop HTML page named as "newspaper.html" having variety of HTML semantic elements with background colors, text-colors & size for figure, table, aside, section, article, header, footer... etc.

SOURCE CODE:

```
<!DOCTYPE html>
```

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

```
<head>
```

```
<title> The Daily Chronicle </title>
```

```
<style>
```

```
body {
```

```
font-family: serif;
```

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

```
color: #333;
```

```
max-width: 1200px;
```

```
margin: 0 auto;
```

```
padding: 20px;
```

```
background-color: #f4f4f4;
```

```
}
```

```
header {
```

```
background-color: #lalala;
```

```
color: #fff;
```

```
padding: 20px;
```

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

```
}
```


DATE 22/10/24

EXPT TITLE:

Newspaper
Registration.html

EXP. NO. 5

PAGE NO.

20

```
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;
```

```
    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;

}

tr {

background-color: #f2f2f2;

}

tbody {

background-color: #f2f2f2;

color: #fff;

~~text-align: center;~~

padding: 10px;

margin-top: 20px;

}

</style>

</head>

<body>

<header>

<h1> The Daily Chronicle </h1>

</header>

<nav>

 Home

<a> Politics

<a> Technology

<a> Sports

<a> Entertainment

</nav>

<main>

<section>

<article>

<h2> Breaking news: Major Technological
Breakthrough </h2>

<p> Scientists have announced a ground
breaking 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 Champion </h2>

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

<table>

<th> Team </th>

<th> Score </th>

</tr>

<td> Local Heroes </td>

<td> 3 </td>

</tr>

<td> Visiting Challengers </td>

<td> 2 </td>

</tr>

</table>

</article>

</section>

<aside>

<h3> Weather update </h3>

<p> Expecting sunny skies with a high of 75°F (24°C) today. </p>

DATE ..22/10/24

EXPT TITLE:

Newspaper.html

EXP. NO.5

PAGE NO. 25

 City festival - This weekend

 Tech Conference - Next month

 Charity run - In 2 weeks

</aside>

</main>

</footer>

<p> ©copy ; 2024 The Daily Chronicle.

All rights reserved. </p>

</Footer>

</body>

</html>

12/11/24

The Daily Chronicle

Home Politics Technology Sports Entertainment

Breaking News: Major Technological Breakthrough

Scientists have announced a grand breaking discovery in the field of quantum computing, potentially revolutionizing the tech industry



A state-of-the-art quantum computer at the research facility

Local sports team wins championship

In a thrilling match, our local team secured victory in the national championship, bringing pride to our city

Team	Score
Local Heroes	3
Visiting Challengers	2

Wheater Update

Expect sunny skies with a high of 75°F today.

Upcoming events

- City Festival-This Weekend
- Tech conference-Next Month
- Charity Run-in two weeks

AIM:

Apply HTML, CSS, Javascript to design a simple calculator to perform the following operations: sum, product, difference, remainder, quotient, power, square-root and square

SOURCE CODE:

<html>

<head>

<style>

table, td, h {

border: 1px solid black;

width: 33%;

text-align: center;

background-color: DarkGray;

border-collapse: collapse;

}

table { margin: auto; }

input { text-align: right; }

</style>

<script type = "text/javascript">

function calc (clicked-id)

{

var val1 = parseFloat (document.getElementById ("value1").value);

var val2 = parseFloat (document.getElementById ("value2").value);


```
if (isNaN(val1) || isNaN(val2))  
    alert("ENTER VALID NUMBER");  
else if (clicked-id == "add")  
    document.getElementById("answer").value =  
        val1 + val2;  
else if (clicked-id == "sub")  
    document.getElementById("answer").value =  
        val1 - val2;  
else if (clicked-id == "mul")  
    document.getElementById("answer").value =  
        val1 * val2;  
else if (clicked-id == "div")  
    document.getElementById("answer").value =  
        val1 / val2;  
else if (clicked-id == "mod")  
    document.getElementById("answer").value =  
        val1 % val2;  
}  
  
function dsc()  
{  
    val1.value = "0";  
    val2.value = "0";  
    answer.value = "";  
}  
  
</script>  
</head>  
<body>
```


<table>

<tr>

<th colspan="4"> SIMPLE CALCULATOR </th>

</tr>

<tr>

<td>value1</td><input type="text" id="value1" value="0"/></td>

<td>value2</td><td><input type="text" id="value2" value="0"/></td>

</tr>

<tr>

<td><input type="button" value="Addition" id="add" onclick="calc(this.id)"/></td>

<td><input type="button" value="Sub" id="sub" onclick="calc(this.id)"/></td>

<td><input type="button" value="mul" id="mul" onclick="calc(this.id)"/></td>

<td><input type="button" value="div" id="div" onclick="calc(this.id)"/></td>

</tr><tr>

<td><input type="button" value="Quotient" id="mod" onclick="calc(this.id)"/></td>

<td><input type="button" value="sqr" id="sqr" onclick="calc(this.id)"/></td>

<td><input type="button" value="pow" id="pow" onclick="calc(this.id)"/></td>

<td><input type="button" value="calc(this.id)"/>


```
<td><input type="button" value="square root" id="root"
on click = " calc (this.id) " /> <td>
```

```
</tr>
```

```
<tr>
```

```
<td> Answer: </td><td><input type="text" id="answer"
value = " " disabled /></td>
```

```
<td colspan = "2"><input type="button" value=" CLEAR
ALL " onclick = " clr () " /> </td>
```

```
</tr>
```

```
</table>
```

```
</body>
```

```
</html>
```

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SIMPLE CALCULATOR			
value1	2	value2	2
Addition	Subtraction	Multiplication	Division
Quotient	Square	Power	Square root
Answer:	0	CLEAR ALL	

SIMPLE CALCULATOR			
value1	2	value2	2
Addition	Subtraction	Multiplication	Division
Quotient	Square	Power	Square root
Answer:	4	CLEAR ALL	

SIMPLE CALCULATOR			
value1	2	value2	2
Addition	Subtraction	Multiplication	Division
Quotient	Square	Power	Square root
Answer:	4	CLEAR ALL	

SIMPLE CALCULATOR			
value1	2	value2	2
Addition	Subtraction	Multiplication	Division
Quotient	Square	Power	Square root
Answer:	1.4142135623730951	CLEAR ALL	

Handwritten notes at the bottom of the page, likely related to the calculator's functionality or the values entered.

AIM :

Develop JavaScript program (with HTML/CSS) for:

- Converting JSON text to Javascript object.
- Converting JSON results into date.
- Converting JSON to CSV & CSV to JSON
- Create hash from string using crypto. create Hash() method.

SOURCE CODE :

```
<html>
```

```
<head>
```

```
<title> JSON / CSV converter & Hash Generation </title>
```

```
<script src="https://cdn.jsdelivr.net/npm/crypto-js@4.1.1/crypto-js.min.js"></script>
```

```
<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);
}
hl {
  color: #333;
}
tentarea {
  width: 100%;
  height: 100%;
  margin-bottom: 10px;
}
button {
  background-color: #4CAF50;
  color: white;
  padding: 10px 15px;
  border: none;
  cursor: pointer;
  margin-left: 10px;
}
button:hover {
  background-color: #45a049;
}
#result {
  margin-top: 20px;
  padding: 10px;
  background-color: #e2e2e2;
  border-radius: 4px;
}

```


</style>

</head>

<body>

<div class="container">

<h1> JSON / CSV Converter & 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="jsonDateInput" placeholder="Enter
JSON date string (eg, { "date": "2023-05-15
T12:00:00Z" }) "> </textarea>

<button onclick="convertJsonToDate()"> Convert to
Date </button>

<h2> c) Convert JSON to CSV & CSV to JSON </h2>

<textarea id="dataInput" placeholder="Enter
JSON or CSV "> </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();
    const jsObject = JSON.parse(jsonInput);
  } catch (error) {
    document.getElementById('result').innerText =
    'Error: ' + error.message;
  }
}

function convertJsonToDate() {
  try {
    const jsonInput = document.getElementById('json
    DateInput').value;
    const jsObject = JSON.parse(jsonInput);
    const date = new Date(jsObject.date);
    document.getElementById('result').innerText =
    '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').innerHTML =
      'converted csv : \n' + csvString;
  } catch (error) {
    document.getElementById('result').innerHTML =
      "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] = value[index];
return obj;
}, {});
```

```
3, {});
```

```
});
```

```
document.getElementById('result').innerHTML =
Converted JSON: \n' + JSON.stringify(JSONArray, null, 2);
```

```
} catch (error) {
```

```
document.getElementById('result').innerHTML = 'Error'
+ error.message;
```

```
}
```

```
}
```

```
function createHash() {
```

```
try {
```

```
const input = document.getElementById('hashInput').
value;
```

```
const hash = CryptoJS.SHA256(input);
```

```
document.getElementById('result').innerHTML =
```

```
'Generated Hash (SHA-256): ' + hash;
```

```
} catch (error) {
```

```
document.getElementById('result').innerHTML =
'Error: ' + error.message;
```

```
}
```

```
}
```

```
</script>
```

```
</body>
```

```
</html>
```

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JSON/CSV Converter and Hash Generator

a) Convert JSON to JavaScript Object

```
{ "name": "John", "age": 30, "city": "New York" }
```

Convert to Object

b) Convert JSON to Date

```
{ "date": "2023-05-15T12:00:00Z" }
```

Convert to Date

c) Convert JSON to CSV and CSV to JSON

```
name, age, gender  
john, 20, male  
jane, 30, female  
bob, 25, male
```

JSON to CSV

CSV to JSON

d) Create Hash from String

```
"Hello, World!"
```

Generate Hash

```
Converted Object: {  
  "name": "John",  
  "age": 30,  
  "city": "New York"  
}
```


Convert to Date

c) Convert JSON to CSV and CSV to JSON

```
name, age, gender  
alice, 20, female  
jane, 20, female  
bob, 15, male
```

JSON to CSV

CSV to JSON

d) Create Hash from String

```
"Hello, World!"
```

Generate Hash

Converted JSON:

```
[  
  {  
    "name": "alice",  
    "age": "20",  
    "gender": "female"  
  },  
  {  
    "name": "jane",  
    "age": "20",  
    "gender": "female"  
  },  
  {  
    "name": "bob",  
    "age": "15",  
    "gender": "male"  
  }  
]
```


Develop a PHP program (with HTML/CSS) to keep track of the no. of visitors visiting the webpage & to display this count of visitors, with relevant headings.

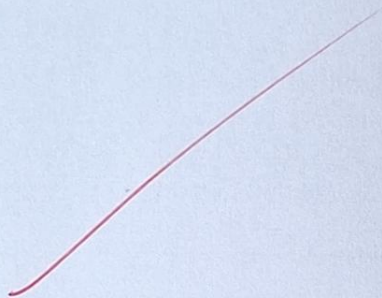
3

Welcome to our Website

Visitor Count

Your visitor number: 5

Total no. of views:3

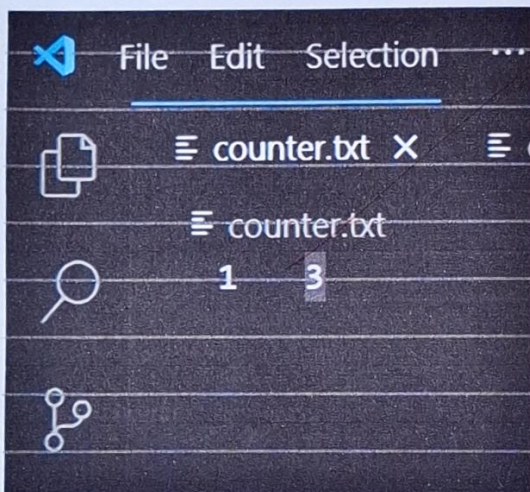
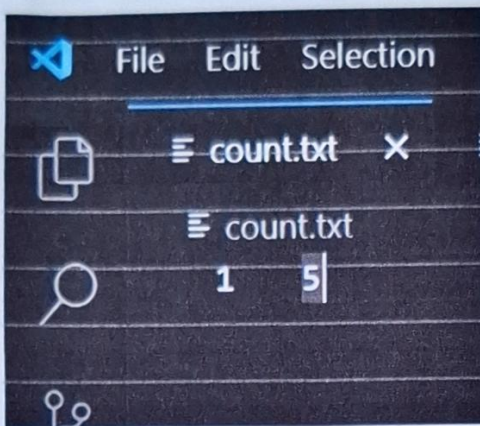


Type here to search



23°C Mostly cloudy


```
</style>
</head>
<body>
  <div class = "container">
    <h1> Welcome to our Website </h1>
    <div class = "counter">
      <?php
        $counterFile = 'count.txt';
        if (file_exists($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 no: $count </p>";
        $name = "counter.txt";
        $file = fopen($name, "r");
        $hits = fscanf($file, "%d");
        fclose($file);
        $hits[0]++;
        $file = fopen($name, "w");
      ?>
    </div>
  </div>
</body>
</html>
```

AIM:

Develop a PHP program (with HTML/CSS) to sort the student record with stored in the database using selection sort.

SOURCE CODE:

```
<html>
```

```
<head>
```

```
<title> Student Record sorter </title>
```

```
<style>
```

```
body {
```

```
font-family: Arial;
```

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

```
margin: 0;
```

```
padding: 20px;
```

```
background-color: #F4F4F4;
```

```
}
```

```
.container {
```

```
max-width: 800px;
```

```
margin: auto;
```

```
background: white;
```

```
padding: 20px;
```

```
border-radius: 5px;
```

```
}
```

```
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;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<h1>Student record </h1>
```

```
<?php
```

```
$host = 'localhost';
```

```
$dbname = 'disha';
```

```
$username = 'root';
```

```
$password = '';
```

```
try {
```

```
$pdo = new PDO("mysql:host=$host;dbname=$dbname;  
$dbname, $username, $password);
```

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

```
$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]['gpa'] > $arr[$min_idx]['gpa']) {
                $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 "<br><th> ID</th><th> Name</th><th> GPA</th></tr>";
for each ($students as $student) {
    echo "<br>";
    echo "<td>".htmlspecialchars($student['id'])."</td>";
    echo "<td>".htmlspecialchars($student['name'])."</td>";
    echo "<td>".htmlspecialchars($student['gpa'])."</td>";
    echo "<tr>";
}

echo "</table>";
} catch (PDOException $e) {
    echo "connection failed :". $e->getMessage();
}
    
```


DATE 12/11/24
EXP. NO. 86

EXPT TITLE: php program to sort student record.

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

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Student record

USN	Name	Marks
1KG20CS019	Alice	2
1KG20CS034	Disha	5
1KG20CS035	Diya	3
1KG20CS020	Ananya	10
1KG20CS062	Likitha	7

AIM:

Develop JQuery Script (With HTML/CSS) for:

- Append the content at the end of the existing paragraph & list.
- Change the state of the element with CSS style using animate() method.
- Change the color of any div that is animated.

SOURCE CODE:

```
<html>
```

```
<head>
```

```
<title> JQuery Append, Animate & color change Demo
```

```
</title>
```

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

```
<style>
```

```
body {
```

```
font-family: Arial;
```

```
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);
}
```

```
h1, h2 {
    color: #333;
```

```
}
```

```
.box {
```

```
width: 100px;
```

```
height: 100px;
```

```
background-color: #3498db;
```

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

```
}
```

```
button {
```

```
padding: 10px 15px;
```

```
background-color: #2ecc71;
```

```
color: white;
```

```
border: none;
```

```
border-radius: 5px;
```

```
cursor: pointer;
```

```
margin-right: 10px;
```

```
}
```

```
button:hover {
```

```
background-color: #27ae60;
```

```
}
```

```
</style>
```

```
</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 list 1 </li>
      <li> Existing item 2 </li>
    </ul>
    <input type="text" id="appendInput" placeholder=
      ="Enter text to append">
    <button id="appendButton"> Append Content
    </button>
    <h2> b. Animate Element </h2>
    <div id="animateBox" class="box"> </div>
    <button id="animateButton"> AnimateBox </button>
    <h2> c. Change color of Animated div </h2>
    <div id="colorBox" class="box"> </div>
    <button id="colorAnimateButton"> Animate & change
      color </button>
    </div>
    <script>
      $(document).ready(function() {
        $("#appendButton").click(function() {
          var userInput = $("#appendInput").val();
          $("#existingList").append("<li>" + userInput +

```



```

"</li>").append("<h4> New Data Appended (<h4>);
1);
$("#animateButton").click(function () {
    $("#animateButton").animate({
        width: "200px";
        height: "200px",
        opacity: 0.5
    }, 1000);
3);
$("#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 * 3, 52, 219));
            }
        }
    });
3);
3);
3);
</script>
</body>
</html>

```

10/12/24

jQuery Demonstration

a. Append content

This is an existing paragraph

- Existing Item 1
- Existing Item 2
- web technology

New Data Appended

web technology

b. Animate Element



c. Change color of animated div



AIM:

Develop a Javascript program with Ajax (with HTML/CSS) form:

- Use ajax() method (without jQuery) to add the text content from the text file by sending ajax req.
- Use ajax() method (with jQuery) to add the text content from the text file by sending ajax req.
- Illustrate the use of getJSON() method in jQuery.
- Illustrate the use of parseJSON() method to display JSON values.

SOURCE CODE:

```
<html>
```

```
<head>
```

```
<title> Ajax Demo Program </title>
```

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
```

```
<style>
```

```
body {
```

```
font-family: Arial;
```

```
line-height: 1.5;
```

```
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);
```

```
}
```

```
h1 {
```

```
color: #333;
```

```
}
```

```
h2 {
```

```
color: #666;
```

```
}
```

```
button {
```

```
background-color: #4CAF50;
```

```
border: none;
```

```
color: white;
```

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

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

```
text-decoration: none;
```

```
display: inline-block;
```

```
font-size: 16px;
```

```
margin: 4px 2px;
```

```
cursor: pointer;
```

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

```
}
```

```
pre {
```

```
background-color: #f8f8f8;
```

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



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

```
padding: 10px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class = "container">
```

```
<h1> Ajax Demo Program </h1>
```

```
<h2> a. Ajax-like operation without jQuery </h2>
```

```
<button onclick = "operationWithoutjQuery()">
```

```
Perform Operation (without jQuery) </button>
```

```
<pre id = "result-a"></pre>
```

```
<h2> b. Ajax-like operation with jQuery </h2>
```

```
<button onclick = "operationWithjQuery()">
```

```
Perform Operation (with jQuery) </button>
```

```
<pre id = "result-b"></pre>
```

```
<h2> c. JQuery-like getJSON() method </h2>
```

```
<button onclick = "parseJSONExample()"> Parse 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").text
```

```
    content SimulatedData.text;
```

```
  }, 500);
```

```
}
```

```
function operationWithJQuery () {
```

```
  $.Deferred (function (deferred) {
```

```
    setTimeout (function () {
```

```
      deferred.resolve (simulatedData.text);
```

```
    }, 500);
```

```
  }) - done (function (result) {
```

```
    $("#result-b").text (result);
```

```
  });
```

```
}
```

```
function getJSON operation () {
```

```
  $.Deferred (function (deferred) {
```

```
    setTimeout (function () {
```



```
deferred.resolve(simulatedData.json);
3,500};
3).done(function(result) {
    $("#result-c").text(JSON.stringify(result,
    null, 2));
3);
3
function parseJSONExample() {
    var jsonString = JSON.stringify(simulatedData.
    json);
    var jsonObject = $.parseJSON(jsonString);
    $("#result-d").text(JSON.stringify(jsonObject,
    null, 2));
3
</script>
</body>
</html>
```

10/12/24

Ajax Demo Program

a. Ajax-like operation without JQuery

Perform Operation (without JQuery)

This is a sample text from a simulated server response.

b. Ajax-like operation with JQuery

Perform Operation (with JQuery)

This is a sample text from a simulated server response.

c. JQuery-like getJSON() method

Get JSON

```
{  
  "name": "John Doe",  
  "age": 30,  
  "city": "New York"  
}
```

d. JQuery parseJSON() method

Parse JSON

```
{  
  "name": "John Doe",  
  "age": 30,  
  "city": "New York"  
}
```