

EXPERIMENT NO 1

Aim: - Create a simple HTML page to demonstrate the use of different tags.

```
<!doctype html>
<html>
<head>
<title> First Experiment </title>
</head>
<body>
<h1> Computer defination:-</h1>
<p>A computer is a device that accepts information (in the form of digitalized
data) and manipulates it for some result based on a program, software, or
sequence of instructions on how the data is to be processed.
</p>

<h2><u> Operating System's:- </u></h2>
<b> Windows</b> <br>
<i> MacOS </i> <br>
<u> Linux </u> <br>

<h3><u>Computer components:- </u></h3>
1) Hard-dsik <br>
2) RAM <br>
3) Processor<br>
4) SMPS etc.
<br>
<h4><u>Peripheral devices:-</u> </h4>
1) keyboard <br>
2) Mouse <br>
3) Moniter <br>
4) Printer <br>

</body>
</html>
```

Computer defination:-

A computer is a device that accepts information (in the form of digitalized data) and manipulates it for some result based on a program, software, or sequence of instructions on how the data is to be processed.

Operating System's:-

Windows

MacOs

Linux

Computer components:-

- 1) Hard-disk
- 2) RAM
- 3) Processor
- 4) SMPS etc.

Peripheral devices:-

- 1) keyboard
- 2) Mouse
- 3) Moniter
- 4) Printer

EXPERIMENT NO 2

Aim:- Design index page of a book on web designing.

```
<!doctype html>
<html>
<head>
<title> Index Page</title>
</head>
<body>
<center><h1> Index</h1></center>
<center>
<table border='2' >
<tr>
<th> SR.No.</th>
<th> Topic </th>
<th> Page No.</th>
</tr>
<tr>
<td>1</td>
<td>Introduction to Computer </td>
<td>07</td>
</tr>
<tr>
<td>2</td>
<td>Number System </td>
<td>29</td>
</tr>
<tr>
<td>3</td>
<td>Computer Organization </td>
<td>64</td>
</tr>
<tr>
<td>4</td>
<td>Theoretical Concepts of Operating </td>
<td>86</td>
</tr>
<tr>
<td>5</td>
<td>Working With Windows OS</td>
```

```
<td>106</td>
</tr>
<tr>
  <td>6</td>
  <td>Introduction to C++ </td>
  <td>132</td>
</tr>
<tr>
  <td>7</td>
  <td>Flow of Control </td>
  <td>147</td>
</tr>
<tr>
  <td>8</td>
  <td>Functions </td>
  <td>168</td>
</tr>
<tr>
  <td>9</td>
  <td>Array and Structure </td>
  <td>184</td>
</tr>
<tr>
  <td>10</td>
  <td>Classes and object </td>
  <td>220</td>
</tr>
<tr>
  <td>11</td>
  <td>Polymorphism </td>
  <td>246</td>
</tr>
<tr>
  <td>12</td>
  <td>Inheritance </td>
  <td>271</td>
</tr>
</table>
</center>
</body>
</html>
```

Index

SR.No.	Topic	Page No.
1	Introduction to Computer	07
2	Number System	29
3	Computer Organization	64
4	Theoretical Concepts of Operating	86
5	Working With Windows OS	106
6	Introduction to C++	132
7	Flow of Control	147
8	Functions	168
9	Array and Structure	184
10	Classes and object	220
11	Polymorphism	246
12	Inheritance	271

EXPERIMENT NO 3

Aim:- Display Letter Head of your college on a web page.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>College Letterhead</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
      padding: 20px;
    }
    .letterhead {
      border: 3px solid #004080;
      padding: 20px;
      border-radius: 15px;
    }
    .logo {
      width: 100px;
    }
    .header-content {
      display: flex;
      align-items: center;
      justify-content: center;
      gap: 20px;
    }
    h1 {
      color: #004080;
      margin: 0;
    }
    .info {
      color: #333;
      font-size: 14px;
    }
  </style>
</head>
<body>
  <div class="letterhead">
    <div class="header-content">
```


<div>

<h1>CT GROUP OF INSTITUTIONS </h1>

<p class="info">Affiliated to PTU University | Accredited by NAAC (A)

GRADE</p>

<p class="info">CT GROUP SHAHPUR CAMPUS, State - PUNAJB</p>

<p class="info">Email: ctgroup.in | Phone: (123) 456-7890</p>

</div>

</div>

<hr>

<h2>Official Letter</h2>

<p class="info">Date: [March 20,2025]</p>

<p class="info">To Whom It May Concern,</p>

<p class="info">[Resignation of a student]</p>

 <p>CT GROUP OF INSTITUTIONS</p> <p>Affiliated to PTU University Accredited by NAAC (A) GRADE</p> <p>CT GROUP SHAHPUR CAMPUS, State - PUNAJB</p> <p>Email: ctgroup.in Phone: (123) 456-7890</p>
<p>Official Letter</p> <p>Date: [March 20,2025]</p> <p>To Whom It May Concern,</p> <p>[Resignation of a student]</p>

</div>

</body>

</html>

EXPERIMENT NO 4

Aim: - Create a Hyperlink to move around within a single page rather than to load another page.

```
<!DOCTYPE html>
<html>
<head>
  <title>Single Page Navigation</title>
</head>
<body>

<h1>Welcome to CT Institute </h1>
<p>Click the links below to jump to different sections:</p>

<!-- Navigation Links -->
<a href="#section1">Go to Section 1</a> |
<a href="#section2">Go to Section 2</a> |
<a href="#section3">Go to Section 3</a>

<hr>

<!-- Section 1 -->
<h2 id="section1">Section 1</h2>
<p>This is the content for Section 1.</p>

<!-- Section 2 -->
<h2 id="section2">Section 2</h2>
<p>This is the content for Section 2.</p>

<!-- Section 3 -->
<h2 id="section3">Section 3</h2>
<p>This is the content for Section 3.</p>

<!-- Back to Top Link -->
<p><a href="#top">Back to Top</a></p>

</body>
</html>
```

Welcome to CT Institute

Click the links below to jump to different sections:

[Go to Section 1](#) | [Go to Section 2](#) | [Go to Section 3](#)

Section 1

This is the content for Section 1.

Section 2

This is the content for Section 2.

Section 3

This is the content for Section 3.

[Back to Top](#)

EXPERIMENT NO 5

Aim: - Display letter using different Text formatting Tags.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Formatted Letter</title>
</head>
<body>
  <h1><u>Formal Letter Example</u></h1>

  <p><b>From:</b> <i> Kartik nahar</i><br>
  <b>Address:</b> Shahkot<br>
  <b>Date:</b> <time datetime="2025-03-20">March 20, 2025</time></p>

  <p><b>To:</b><br>
  <strong> Vijay kumar</strong><br>
  Director, XYZ Corporation<br>
  Model Town near Singh Sabha Gurudwara,Jalandhar</p>

  <p><b>Subject:</b> <mark>Request for Meeting</mark></p>

  <p>Dear <em>Mr. Vijay</em>,</p>

  <p>I am writing to request a meeting with you to discuss our recent project proposal. I believe
  that by collaborating, we can achieve <b>outstanding</b> results. Please let me know a suitable
  date and time for us to meet.</p>

  <p>Looking forward to your response.</p>

  <p>Sincerely,<br>
  <del>kartik</del> <ins>Kartik nahar</ins></p>

  <p><small>Note: This letter is for demonstration purposes only.</small></p>
</body>
</html>
```

Formal Letter Example

From: *Kartik nahar*
Address: Shahkot
Date: March 20, 2025

To:
Vijay kumar
Director, XYZ Corporation
Model Town near Singh Sabha Gurudwara, Jalandhar

Subject: Request for Meeting

Dear *Mr. Vijay*,

I am writing to request a meeting with you to discuss our recent project proposal. I believe that by collaborating, we can achieve **outstanding** results. Please let me know a suitable date and time for us to meet.

Looking forward to your response.

Sincerely,
~~Kartik~~ **Kartik nahar**

Note: This letter is for demonstration purposes only.

EXPERIMENT NO 6

Aim:- Design Time Table of your department and highlights of most important periods.

```
<!DOCTYPE html>
<html>
<head>
  <title>Department Time Table</title>
</head>
<body>
  <table border="2" cellpadding="8">
    <tr>
      <th colspan="10"> NAME OF INSTITUTE OF:CTIMT</th>
    </tr>
    <tr>
      <th colspan="10"> DEPARTMENT:CA</th>
    </tr>
    <tr>
      <th colspan="3"> Class:BCA 4</th>
      <th colspan="3"> Total Load:26</th>
      <th colspan="3"> Jan-April 2025</th>
      <th colspan="3"> w.e.f. 15 jan 2025</th>
    </tr>
    <tr>
      <th> Time </th>
      <th>9:00-10:00</th>
      <th>10:00-10:50</th>
      <th>10:50-11:40</th>
      <th>11:40-12:30</th>
      <th>12:30-01:20</th>
      <th>01:20-2:10</th>
      <th>02:10-03:00</th>
      <th>03:00-03:45</th>
      <th>03:45-04:30</th>
    </tr>
    <tr>
      <th> Day</th>
      <th>1</th>
```

```

<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>

</tr>
<tr>
<td>Monday</td>
<td>Software Engineering (L) Dr. Gagandeep Kaur R-201</td>
<td>Operating System (L) Ms. Shilpi Dhir R-201</td>
<td></td>
<td>Web Designing (L) MS. Poonam Bhalla R-201</td>
<td rowspan="5">BREAK</td>
<td colspan="2">Software Engineering/Lab Dr Gagandeep Kaur CL-4</td>
<td></td>
<td></td>

</tr>
<tr>
<td>Tuesday</td>
<td>Operting System (L) Ms.Shilpi R-201</td>
<td>DBMS (L) Ms.Navdeep R-201</td>
<td colspan="2">Web Designing Lab MS.Poonam Bhalla CL-3</td>
<td></td>
<td>Software Engineering (L) Dr.Gagandeep Kaur R-201</td>
<td>Web Designing (L) MS.Poonam Bhalla R-201</td>
<td></td>

</tr>
<tr>
<td>Wednesday</td>
<td></td>
<td>Operting System (L) Ms.Shilpi R-201</td>
<td colspan="2">Operting System Lab MS.Shilpi CL-4</td>
<td></td>
<td>PDP R-201 MS.Renuka </td>
<td></td>
<td colspan="2">DBMS Lab CL-5 MS.Navdeep</td>

</tr>

```

```

<tr>
  <td>Thursday</td>
  <td>DBMS (L) Ms. Navdeep R-201</td>
  <td>Operating System (L) R-201</td>
  <td colspan="2">DBMS LAB CL-4 MS.Navdeep</td>
  <td></td>
  <td colspan="2">Software Engineering/Lab Dr.Gagandeep Kaur CL-4</td>
  <td colspan="2">OS LAB MS.Navdeep CL-4</td>
</tr>
<tr>
  <td>Friday</td>
  <td>DBMS (L) Ms. Navdeep R.201</td>
  <td>Operating System (L) MS.Shilpi R-201</td>
  <td>Software Engineering (L) DR.Gagandeep kaur r-201</td>
  <td></td>
  <td></td>
  <td></td>
  <td></td>
  <td></td>
</tr>
</table>
</body>
</html>

```

NAME OF INSTITUTE OF:CTIMT									
DEPARTMENT:CA									
Class:BCA 4			Total load:26			Jan-April 2025			w.e.f. 15 jan 2025
Time	9:00-10:00	10:00-10:50	10:50-11:40	11:40-12:30	12:30-1:20	1:20-2:10	2:10-3:00	3:00-3:45	3:45-4:30
Day	1	2	3	4	5	6	7	8	9
Monday	Software Engineering (L) Dr Gagandeep Kaur R-201	Operating System (L) Ms Shilpi R-201		Web Designing (L) MS Poonam R-201	BREAK	Software Engineering Lab Dr Gagandeep Kaur CL-4			
Tuesday	Operating System (L) Ms Shilpi R-201	DBMS(L) Ms Navdeep R-201	Web Designing Lab MS Poonam CL-3				Software Engineering (L) Dr Gagandeep Kaur R-201	Web Designing (L) MS Poonam R-201	
Wednesday		Operating System (L) Ms Shilpi R-201	Operating System Lab MS. Shilpi CL-4				PDP R-201 Ms Renuka		DBMS Lab CL-5 MS. Navdeep
Thursday	DBMS (L) Ms Navdeep R-201	Operating System (L) Ms Shilpi R-201	DBMS LAB CL-4 MS Navdeep				Software Engineering Lab Dr Gagandeep Kaur CL-4		OS LAB Ms Navdeep CL 4
Friday	DBMS (L) Ms Navdeep R-201	Operating System (L) Ms Shilpi R-201	Software Engineering (L) Dr Gagandeep R-201						

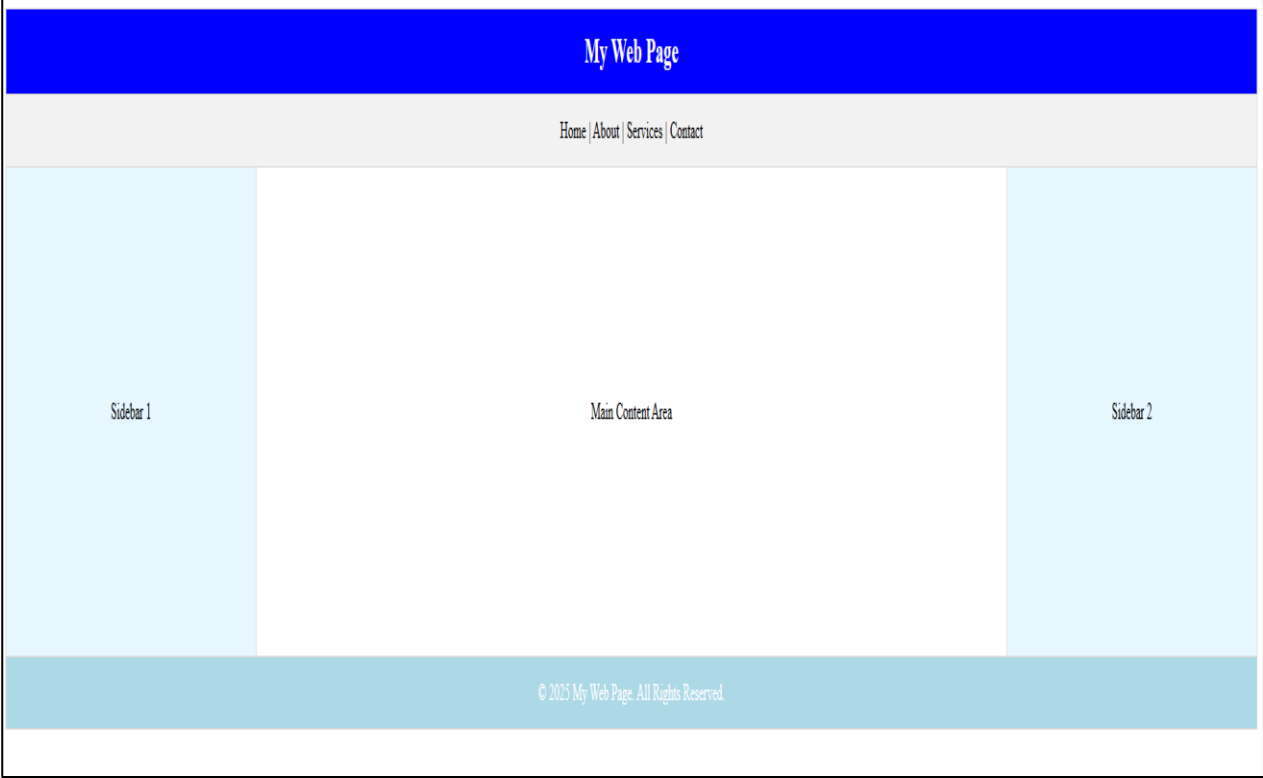
EXPERIMENT NO 7

Aim:-Use Tables to provide layout to your web page.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Web Page Layout with Tables</title>
  <style>
    table { width: 100%; border-collapse: collapse; }
    th, td { border: 1px solid #ddd; padding: 15px; text-align: center; }
    .header { background-color: blue; color: white; font-size: 24px; }
    .nav { background-color: #f2f2f2; }
    .content { height: 300px; }
    .sidebar { background-color: #e6f7ff; }
    .footer { background-color: lightblue; color: white; }
  </style>
</head>
<body>
  <table>
    <tr>
      <th class="header" colspan="3">My Web Page</th>
    </tr>
    <tr>
      <td class="nav" colspan="3">Home | About | Services | Contact</td>
    </tr>
    <tr>
      <td class="sidebar" style="width: 20%;>Sidebar 1</td>
      <td class="content">Main Content Area</td>
      <td class="sidebar" style="width: 20%;>Sidebar 2</td>
    </tr>
    <tr>
      <td class="footer" colspan="3">&copy; 2025 My Web Page. All Rights Reserved.</td>
    </tr>
  </table>
```

</body>

</html>



EXPERIMENT NO 8

Aim:- Embed Audio and Video into your web page.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Media Embedding Example</title>
</head>
<body>
  <h1>Embedding Audio and Video in HTML</h1>

  <!-- Audio Embedding -->
  <h2>Audio Example</h2>
  <audio controls>
    <source src="C:\Users\RISHABH PRASHAR\Downloads\ElevenLabs_2025-03-18T15_54_20_Rachel_pre_s50_sb75_se0_b_m2.mp3" type="audio/mpeg">
    <source src="audio-file.ogg" type="audio/ogg">
    Your browser does not support the audio element.
  </audio>

  <!-- Video Embedding -->
  <h2>Video Example</h2>
  <video width="640" height="360" controls>
    <source src="C:\Users\RISHABH PRASHAR\Downloads\ElevenLabs_2025-03-18T15_54_20_Rachel_pre_s50_sb75_se0_b_m2 (1).mp4" type="video/mp4">
    <source src="video-file.ogg" type="video/ogg">
    Your browser does not support the video tag.
  </video>

  <!-- Additional Attributes -->
  <h2>Advanced Video Options</h2>
  <video width="640" height="360" controls autoplay loop muted>
    <source src="C:\Users\RISHABH PRASHAR\Downloads\ElevenLabs_2025-03-18T15_54_20_Rachel_pre_s50_sb75_se0_b_m2 (1).mp4" type="video/mp4">
    Your browser does not support the video tag.
  </video>
</body>
</html>
```

Embedding Audio and Video in HTML

Audio Example



Video Example



EXPERIMENT NO 9

Aim:- Divide a web page vertically and horizontally and display logo of your college in left pane and logo of university in right pane.

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Logo Display</title>

  <style>

    body, html {

      height: 100%;

      margin: 0;

      display: flex;

    }

    .left-pane, .right-pane {

      flex: 1;

      display: flex;

      align-items: center;

      justify-content: center;

      border: 2px solid #000;

    }

    .left-pane {

      background-color: #FDB7EA;

    }

    .right-pane {
```

```
        background-color: #A1E3F9; /* Light pink */
    }
    img {
        max-width: 80%;
        height: auto;
    }
</style>
</head>
<body>
    <div class="left-pane">
        
    </div>
    <div class="right-pane">
        
    </div>
</body>
</html>
```



CT
GROUP OF
INSTITUTIONS
PUNJAB (INDIA)
www.ctgroup.in

EXPERIMENT NO 10

Aim:- Create a student Bio- Data.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student Bio-Data</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f0f8ff;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }
    .container {
      background-color: #ffffff;
      border: 2px solid #4CAF50;
      border-radius: 15px;
      padding: 30px;
      box-shadow: 5px 5px 15px rgba(0, 0, 0, 0.2);
      max-width: 400px;
      width: 100%;
    }
    h1 {
      text-align: center;
      color: #4CAF50;
    }
    .bio-item {
      margin: 10px 0;
    }
    .bio-item strong {
      color: #333;
    }
  </style>
</html>
```

```
</style>
</head>
<body>
  <div class="container">
    <h1>Student Bio-Data</h1>
    <div class="bio-item"><strong>Name:</strong> Rishabh Prashar</div>
    <div class="bio-item"><strong>Age:</strong> 20</div>
    <div class="bio-item"><strong>Contact:</strong>
    rishabhprashar40@gmail.com</div>
    <div class="bio-item"><strong>Address:</strong> 123 Shahkot</div>
    <div class="bio-item"><strong>Education:</strong> Bachelor of Computer
    Application</div>
    <div class="bio-item"><strong>Skills:</strong> HTML, CSS, JavaScript,
    Python</div>
    <div class="bio-item"><strong>Hobbies:</strong> Reading, Coding, Playing
    Chess</div>
  </div>
</body>
</html>
```

Student Bio-Data

Name: Rishabh Prashar

Age: 20

Contact: rishabhprashar40@gmail.com

Address: 123 Shahkot

Education: Bachelor of Computer Application

Skills: HTML, CSS, JavaScript, Python

Hobbies: Reading, Coding, Playing Chess

EXPERIMENT NO 11

11. Design front page of hospital with different style sheets.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Hospital Front Page</title>
  <link rel="stylesheet" href="styles/style.css">
  <style>body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f4f4f4;
  }

  header {
    background: #007bff;
    color: white;
    padding: 20px 0;
    text-align: center;
  }

  header .logo h1 {
    margin: 0;
  }

  nav ul {
    list-style: none;
    padding: 0;
  }

  nav ul li {
    display: inline;
    margin: 0 15px;
  }

  nav ul li a {
    color: white;
    text-decoration: none;
  }
}
```

```
#hero {
  background: url('hospital-hero.jpg') no-repeat center center/cover;
  color: white;
  padding: 100px 20px;
  text-align: center;
}

#hero h2 {
  font-size: 2.5em;
}

#hero p {
  font-size: 1.2em;
}

.btn {
  background: #28a745;
  color: white;
  padding: 10px 20px;
  text-decoration: none;
  border-radius: 5px;
}

main {
  padding: 20px;
}

section {
  margin: 20px 0;
  background: white;
  padding: 20px;
  border-radius: 5px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}

footer {
  text-align: center;
  padding: 10px 0;
  background: #007bff;
  color: white;
}
</style>
</head>
<body>
  <header>
    <div class="logo">
      <h1>City Hospital</h1>
```

</div>

<nav>

About Us

Services

Contact

Appointments

</nav>

</header>

<main>

<section id="hero">

<h2>Your Health, Our Priority</h2>

<p>Providing quality healthcare services to our community.</p>

Book an Appointment

</section>

<section id="about">

<h2>About Us</h2>

<p>City Hospital has been serving the community for over 20 years with a commitment to excellence in healthcare.</p>

</section>

<section id="services">

<h2>Our Services</h2>

Emergency Care

Outpatient Services

Inpatient Care

Surgery

Rehabilitation

</section>

<section id="contact">

<h2>Contact Us</h2>

<p>Email: Srivalliinfo@cityhospital.com</p>

<p>Phone: (123) 456-7890</p>

</section>

</main>

<footer>

<p>© 2023 City Hospital. All rights reserved.</p>

</footer>

</body>

</html>

City Hospital

[About Us](#) [Services](#) [Contact](#) [Appointments](#)

Your Health, Our Priority

Providing quality healthcare services to our community.

[Book an Appointment](#)

About Us

City Hospital has been serving the community for over 20 years with a commitment to excellence in healthcare.

EXPERIMENT NO 12

12. Design a web page and display two different pages at a time.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Dual Page Layout</title>
  <style>
    body {
      display: flex;
      height: 100vh;
      margin: 0;
      font-family: Arial, sans-serif;
    }
    .container {
      display: flex;
      width: 100%;
    }
    .page {
      flex: 1;
      padding: 20px;
      box-sizing: border-box;
    }
    .page1 {
      background-color: #4CAF50;
      color: #fff;
    }
    .page2 {
      background-color: #2196F3;
      color: #fff;
    }
    h1 {
      text-align: center;
    }
  </style>
</head>
<body>
  <div class="container">
    <div class="page page1">
```

```
<h1>Welcome to Page 1</h1>
```

```
<p>This page is dedicated to sharing information about environmental conservation.</p>
```

```
We focus on green energy, sustainable living, and reducing carbon footprints.</p>
```

```
<ul>
```

```
<li>Solar Energy Benefits</li>
```

```
<li>Recycling Tips</li>
```

```
<li>Eco-Friendly Lifestyle Ideas</li>
```

```
</ul>
```

```
</div>
```

```
<div class="page page2">
```

```
<h1>Welcome to Page 2</h1>
```

```
<p>On this page, we explore advancements in technology. Learn about cutting-edge innovations
```

```
that are changing the way we live and work.</p>
```

```
<ul>
```

```
<li>AI and Machine Learning</li>
```

```
<li>Future of Robotics</li>
```

```
<li>5G Connectivity</li>
```

```
</ul>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

Welcome to Page 1

This page is dedicated to sharing information about environmental conservation. We focus on green energy, sustainable living, and reducing carbon footprints.

- Solar Energy Benefits
- Recycling Tips
- Eco-Friendly Lifestyle Ideas

Welcome to Page 2

On this page, we explore advancements in technology. Learn about cutting-edge innovations that are changing the way we live and work.

- AI and Machine Learning
- Future of Robotics
- 5G Connectivity

EXPERIMENT NO 13

13) Write a program to create a login form. On submitting the form, the user should get navigated to a profile page using JavaScript.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login Form</title>
  <style>
    body {
      display: flex;
      height: 100vh;
      margin: 0;
      font-family: Arial, sans-serif;
      justify-content: center;
      align-items: center;
      background-color: #f0f2f5;
    }
    .login-container {
      background-color: #fff;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
      width: 300px;
      text-align: center;
    }
    .login-container input {
      width: 100%;
      padding: 10px;
      margin: 10px 0;
      border: 1px solid #ccc;
      border-radius: 4px;
    }
    .login-container button {
      width: 100%;
      background-color: #4CAF50;
      color: #fff;
      border: none;
      padding: 10px;
    }
  </style>
</head>
<body>
  <div class="login-container">
    <input type="text">
    <input type="password">
    <button type="submit">Login</button>
  </div>
</body>
</html>
```

```
        border-radius: 4px;
        cursor: pointer;
    }
    .profile-page {
        display: none;
        text-align: center;
    }
</style>
</head>
<body>
    <div class="login-container" id="loginForm">
        <h2>Login</h2>
        <input type="text" id="username" placeholder="Enter your username" required>
        <input type="password" id="password" placeholder="Enter your password"
required>
        <button onclick="login()">Submit</button>
    </div>

    <div class="profile-page" id="profilePage">
        <h1>Welcome to Your Profile</h1>
        <p>Hello, <span id="userDisplay"></span>! You have successfully logged in.</p>
    </div>

    <script>
        function login() {
            const username = document.getElementById('username').value;
            const password = document.getElementById('password').value;

            if (username && password) {
                document.getElementById('loginForm').style.display = 'none';
                document.getElementById('profilePage').style.display = 'block';
                document.getElementById('userDisplay').innerText = username;
            } else {
                alert('Please enter valid credentials.');
```

Login

Welcome to Your Profile

Hello, RISHABH PRASHAR! You have successfully logged in.

EXPERIMENT NO 14

14) Write a code to create a Registration Form. On submitting the form, the user should be asked to login with the new credentials using JavaScript.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration & Login Form</title>
</style>
  body {
    display: flex;
    height: 100vh;
    margin: 0;
    font-family: Arial, sans-serif;
    justify-content: center;
    align-items: center;
    background-color: #f0f2f5;
  }
  .container {
    background-color: #fff;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
    width: 300px;
    text-align: center;
  }
  .container input {
    width: 100%;
    padding: 10px;
    margin: 10px 0;
    border: 1px solid #ccc;
    border-radius: 4px;
  }
  .container button {
    width: 100%;
    background-color: #4CAF50;
    color: #fff;
    border: none;
    padding: 10px;
    border-radius: 4px;
    cursor: pointer;
  }
  .profile-page {
```

```

        display: none;
        text-align: center;
    }
</style>
</head>
<body>
    <div class="container" id="registrationForm">
        <h2>Register</h2>
        <input type="text" id="regUsername" placeholder="Choose a username" required>
        <input type="password" id="regPassword" placeholder="Choose a password"
required>
        <button onclick="register()">Register</button>
    </div>

    <div class="container" id="loginForm" style="display:none;">
        <h2>Login</h2>
        <input type="text" id="username" placeholder="Enter your username" required>
        <input type="password" id="password" placeholder="Enter your password"
required>
        <button onclick="login()">Login</button>
    </div>

    <div class="profile-page" id="profilePage">
        <h1>Welcome to Your Profile</h1>
        <p>Hello, <span id="userDisplay"></span>! You have successfully logged in.</p>
    </div>

<script>
    let registeredUser = '';
    let registeredPass = '';

    function register() {
        registeredUser = document.getElementById('regUsername').value;
        registeredPass = document.getElementById('regPassword').value;

        if (registeredUser && registeredPass) {
            alert('Registration successful! Please log in.');
```

Register

RISHABH PRASHAR

.....

Register

```
function login()
    const
document.getElementById('username').value;
    const password = document.getElementById('password').value;

    if (username === registeredUser && password === registeredPass) {
        document.getElementById('loginForm').style.display = 'none';
        document.getElementById('profilePage').style.display = 'block';
        document.getElementById('userDisplay').innerText = username;
    } else {
        alert('Invalid credentials. Please try again.');
```

```
{
    username =
```

```
    }
    </script>
```

```
</body>
```

```
</html>
```

This page says

Registration successful! Please log in.

OK

Welcome to Your Profile

Hello, RISHABH PRASHAR! You have successfully logged in.

EXPERIMENT NO 15

15) Write an HTML code to create your Institute website/Department website/ Tutorial website for specific subject. Also use Java Script for validation.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Institute Website</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      background-color: #eef1f7;
    }
    header {
      background-color: #4CAF50;
      color: #fff;
      padding: 15px 0;
      text-align: center;
      font-size: 24px;
    }
    nav {
      background-color: #2196F3;
      padding: 10px;
      text-align: center;
    }
    nav a {
      color: #fff;
      text-decoration: none;
      padding: 0 15px;
      font-size: 18px;
    }
    .content {
      padding: 20px;
    }
    .form-container {
      background-color: #fff;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
      max-width: 400px;
      margin: 20px auto;
    }
  </style>
</head>
<body>
  <header>
    <h1>Institute Website</h1>
  </header>
  <nav>
    <a href="#">Home</a>
    <a href="#">About</a>
    <a href="#">Services</a>
    <a href="#">Contact</a>
  </nav>
  <div class="content">
    <div class="form-container">
      <h2>Contact Us</h2>
      <input type="text" value="Name" />
      <input type="text" value="Email" />
      <input type="text" value="Phone" />
      <input type="text" value="Address" />
      <input type="button" value="Submit" />
    </div>
  </div>
</body>
</html>
```

```

input, button {
    width: 100%;
    padding: 10px;
    margin: 10px 0;
    border: 1px solid #ccc;
    border-radius: 4px;
}
button {
    background-color: #4CAF50;
    color: #fff;
    border: none;
    cursor: pointer;
}

```

```
</style>
```

```
</head>
```

```
<body>
```

```
<header>CT GROUP OF INSTITUTIONS </header>
```

```
<nav>
```

```
<a href="#">Home</a>
```

```
<a href="#">About Us</a>
```

```
<a href="#">Courses</a>
```

```
<a href="#">Contact</a>
```

```
</nav>
```

```
<div class="content">
```

```
<div class="form-container" id="registrationForm">
```

```
<h2>Register</h2>
```

```
<input type="text" id="regUsername" placeholder="Choose a username"
```

```
required>
```

```
<input type="password" id="regPassword" placeholder="Choose a password"
```

```
required>
```

```
<button onclick="register()">Register</button>
```

```
</div>
```

```
<div class="form-container" id="loginForm" style="display:none;">
```

```
<h2>Login</h2>
```

```
<input type="text" id="username" placeholder="Enter your username" required>
```

```
<input type="password" id="password" placeholder="Enter your password"
```

```
required>
```

```
<button onclick="login()">Login</button>
```

```
</div>
```

```
<div class="content" id="profilePage" style="display:none;">
```

```
<h1>Welcome to Your Profile</h1>
```

```
<p>Hello, <span id="userDisplay"></span>! You have successfully logged in.</p>
```

```
</div>
```

```
</div>
```

```
<script>
```

```
let registeredUser = "";
```

```
let registeredPass = "";
```

```
function register() {
```

```
    registeredUser = document.getElementById('regUsername').value;
```

```
    registeredPass = document.getElementById('regPassword').value;
```

```
    if (registeredUser && registeredPass) {
```

```
        alert('Registration successful! Please log in.');
```

```
        document.getElementById('registrationForm').style.display = 'none';
```

```
        document.getElementById('loginForm').style.display = 'block';
```

```
    } else {
```

```
        alert('Please fill out all fields to register.');
```

```
    }
```

```
}
```

```
function login() {
```

```
    const username = document.getElementById('username').value;
```

```
    const password = document.getElementById('password').value;
```

```
    if (username === registeredUser && password === registeredPass) {
```

```
        document.getElementById('loginForm').style.display = 'none';
```

```
        document.getElementById('profilePage').style.display = 'block';
```

```
        document.getElementById('userDisplay').innerText = username;
```

```
    } else {
```

```
        alert('Invalid credentials. Please try again.');
```

```
    }
```

```
}
```

```
</script>
```

```
</body>
```

```
</html>
```

CT GROUP OF INSTITUTIONS

[Home](#) [About Us](#) [Courses](#) [Contact](#)

Register

Register

CT GROUP OF INSTITUTIONS

[Home](#) [About Us](#) [Courses](#) [Contact](#)

Login

Login