



SILVER OAK UNIVERSITY

EDUCATION TO INNOVATION

CERTIFICATE

This is to certify that

Mr. /Ms Rosiyel Sankarji Nileshkumar

With enrollment no 2404030 400105 from

Semester I Div. B has Successfully completed his/her laboratory experiments in the **Html markup for web designers (4040243136)** from the department of

BSc (CS - IT) during the academic year 2024-2025.

Date of Submission: _____

Staff In charge: _____

Head of Department



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EXPERIMENT NO: 1

Aim: Create and save simple HTML document & modifying the

1. background of HTML
2. Webpage with different colors.

Description:

In this practical, we created a basic HTML document and applied CSS to change the background color of the webpage. Additionally, we used CSS properties to modify the color of different webpage elements like headers and paragraphs. This demonstrates the basic concept of styling HTML elements using CSS.

Procedure:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title> simple HTML page </title>
<style>
body {
background-color: lightblue; /* change this
color to whatever you prefer */
font-family: Arial, sans-serif
}
h1 {
color: darkblue;
}
</style>
</head>
<body>
```



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<h1> welcome to my simple HTML page </h1>
<p> this is a simple paragraph on the webpage </p>
Conclusion: </body>

welcome to simple HTML page
this is a simple paragraph on
the webpage

Post Practical Question:

- How can you apply different background images instead of a color to your webpage?

Ans: Use CSS background image: url (Path/to/your/image.jpg);
to apply a background image instead of a color on your webpage.

- How would you change the colors dynamically using JavaScript?

Ans: Use document.body.style.backgroundColor = "NewColor"; JavaScript to change the background color dynamically.

Signature with Date of Completion	
Marks out of 10	



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EXPERIMENT NO: 2

Aim: Demonstrate use of

1. subscript,
2. super script,
3. align tag and
4. Format the text by using formatting tags like bold and italic.

Description:

In this practical, we demonstrated how to use:

1. Subscript (`<sub>`) and superscript (`<sup>`) tags to format text in mathematical and chemical notations.
2. Align attribute to control text alignment (center, right).
3. Formatting tags like bold (``) and italic (`<i>`) to emphasize specific parts of the text.

Procedure:

To use subscript and super script, you can use the HTML tags `<sub>` for subscript and `<sup>` for superscript to align text use the `<align>` attribute with a block element like `<div>` or `<p>` to format text use `` for bold and `` for italic. Here is an example.

`<p align = "center">`

This is `` bold `` and `` italic ``. text.

`</p>`
`<p>`

$H₁ + ₂_O$ is water, and $E = mc^2$ `²`



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EXPERIMENT NO: 3

Aim: Draw the table as given format

Description:

In this exercise, a table is created using the `<table>`, `<tr>`, `<th>`, and `<td>` tags. The table structure was enhanced with attributes like borders, cell padding, and cell spacing. This demonstrates the creation of structured data presentation using tables in HTML.

Procedure:

```
<!DOCTYPE html>
<html lang="eng">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
  initial-scale=1.0">
<title> Sample Table </title>
<style>
  table {
    border-collapse: collapse; /merges borders for cleaner
    look/width: 80%; /sets the table width /margin: 20px
    auto; /
    text-align: center; /centers the table on the page/
  }
  th, td {
    border: 1px solid #000; /black border for cells/
  }
</style>
```



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EXPERIMENT NO: 4

Aim: Create web page using metadata & `<!DOCTYPE html>` tag.

Description:

This practical demonstrates the use of the `<!DOCTYPE html>` declaration to specify the HTML version. It also covers the use of metadata tags like `<meta>` to define the character set, description, keywords, and other important information for the webpage. Metadata is essential for SEO and webpage responsiveness.

Procedure:

```
<!DOCTYPE HTML>
<html lang="en">
<head>
<meta charset="UTF-8" /> - character encoding
<meta name="viewport" content="width=device-width, initial
  scale=1.0" />
<!-- Responsive design -->
<meta name="description" content="This is a simple webpage
example using meta and
the Doctype tag." />
<title>simple webpage example
</title>
<style>
```

Conclusion:

~~Doctype declaration: The `<!DOCTYPE html>` ensure the page is rendered in standards mode according to HTML5~~

Post Practical Question:

- 2) Metadata:- The `<head>` section containing vital elements like character encoding responsive design settings and SEO description enhancing browser understanding and search visibility.



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EXPERIMENT NO: 5

Aim: Create a Web page to display basic your resume

Description:

In this practical, a simple webpage was created to showcase a basic resume layout. HTML tags such as `<h1>`, `<p>`, ``, and `<table>` are used to structure sections like personal details, education, skills, and contact information. This is useful for creating personal portfolios or professional resumes online.

Procedure:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width
      initial-scale=1.0">
<title>your name - Resume</title>
<style>
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 20px;
    background-color: #f0f0f0;
}
header {
    text-align: center;
    padding: 10px;
    background-color: #f0f0f0;
}
```



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Date : Page No. :

</header>
<section>
 <h2> Education </h2>

 Bachelor of science in your Major
 , university name introduction to your
 job title company
 name <month year ->

 Responsibility / task 1
 Responsibility / task 2
 Responsibility / task 3

</section>
<footer>
 <p> © 2023 Your Name. All rights reserved.
 Information subject to change.
 DF

 footer 1
 footer 2

</body>
</html>

<table> <thead> <tr> <th> column 1 </th> <th> column 2 </th> <th> column 3 </th> </tr> </thead> <tbody> <tr> <td> data 11 </td> <td> data 12 </td> <td> data 13 </td> </tr> <tr> <td> data 21 </td> <td> data 22 </td> <td> data 23 </td> </tr> <tr> <td> data 31 </td> <td> data 32 </td> <td> data 33 </td> </tr> </tbody> </table>



EXPERIMENT NO: 6

Aim: Show the use of all tags and attributes of
1. ordered list
2. unordered list.

Description:

This exercise demonstrates the use of ordered (``) and unordered (``) lists in HTML. The `` tag is used for list items. Attributes like `type`, `start`, and `reversed` for ordered lists, and bullet styling for unordered lists, are explored to enhance list formatting.

Procedure:

~~``
` Item 1 `
` Item 2 `
` Item 3 `
``~~

~~`<ol type = "A" start = "2" reversed>`
` Step 1 `
` Step 2 `
` Step 3 `~~

~~↳ Nested list~~

~~``
` Main item `
``
` Sub item 1 `
``~~



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 Another main item

 Main step

<ol type="c1">

 Sub Step 1

 Sub Step 2

 Another main step

Conclusion:

Post Practical Question:

1. Which tag is used to create an unordered list in HTML?

- a)
- b)
- c)
- d) <list>

Answer:

2. What is the purpose of the tag in both ordered and unordered lists?

- a) To define the list itself
- b) To represent each item within a list
- c) To create a heading for the list
- d) To style the list items

Answer: To represent each item within a list.

3. Which attribute can be used to specify the type of bullet in an unordered list?



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EXPERIMENT NO: 7

Aim: Create webpage which shows the use of hyperlink.

Description:

In this practical, hyperlinks were created using the `<a>` tag. The `href` attribute was used to link to external and internal web pages, while the `target` attribute was used to control how the linked page opens (e.g., in a new tab). This exercise is key in learning how to navigate between web pages.

Procedure:

```
<h1> Welcome to my webpage </h1>
<p> This is a simple webpage demonstrating those
    of hyperlinks. </p>
<h2> External link </h2>
<p> Visit the <a href="https://www.wikiPedic.org">
    target=_blank </a> website to
    learn about various topics. </p>
</body>
</html>
```

Conclusion:

The provided HTML code demonstrates how to
 create a webpage featuring various types of hyperlinks,
 including external links, internal links, and mailto links.

Post Practical Question:

These links enhance navigation and
 interactivity by allowing user to easily
 access additional resources and contact
 information.



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- What are the security implications of using hyperlinks that open in a new tab (i.e., using `target="blank"`)?

Ans: Use `rel="noopener noreferrer"`. This attribute combination prevents the new page from having access to the window opener object effectively mitigating the risk of tab nuking here's how you can use it,

` open Example `

- How would you create an anchor link that scrolls to a specific section of the same webpage?

Ans:

To create an anchor link that scroll to a specific section of the same web page, add `锚` attribute to the target section and use a link with a hash symbol followed by the id. for example

` Go to section `
`<div id="Section ID"> Target section</div>`

Signature with Date of Completion	
Marks out of 10	



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EXPERIMENT NO: 8

Aim: Show the use of all tags related to images.

Description:

This practical demonstrates the use of the `` tag to display images on a webpage. Attributes like `src` (source), `alt` (alternative text), `height`, and `width` are explored to control the display of images. It also covers image alignment and linking an image to another page using the `<a>` tag.

- Procedure:
- (1) ``
 - (2) `<Figure>`
``
`<Fig caption> Caption for the image</Fig caption>`
`</Figure>`
 - (3) `<picture>`
`<source media="(min-width: 650px)" srcset="image-large.jpg">`
`<source media="(min-width: 650px)" srcset="image-large.jpg">`
``
`</picture>`
 - (4) `<source media: "(min-width: 650px)" srcset="image-large.jpg">`

Conclusion:



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EXPERIMENT NO: 9

Aim: Create a webpage and use the following TAG to perform operation.

1. Create a simple table with at least three rows and three columns.
2. Use the `<table>`, `<tr>`, `<th>`, and `<td>` tags.
3. Add a caption to the table created above using the `<caption>` tag.
4. Add a border to your table using the border attribute in the `<table>` tag.
5. Align the content of your table cells using the align and valign attributes.
6. Change the background color of your table and its cells using the bgcolor attribute.
7. Use the cellpadding and cellspacing attributes to adjust the spacing inside and between the table cells.
8. Create a nested table by inserting one table inside another table's cell.

Description:

This practical focuses on creating a table with at least three rows and three columns using the `<table>`, `<tr>`, `<th>`, and `<td>` tags. Features such as captions, borders, alignment, background colors, cellpadding, and cellspacing were demonstrated. Additionally, a nested table was created by placing one table inside a table cell.

Procedure:

```
<table border="1">
<tr>
<th> Header 1 </th>
<th> Header 2 </th>
<th> Header 3 </th>
</tr>
<tr>
<td> ROW1, Cell1 </td>
<td> Row 1, Cell 2 </td>
<td> Row 1, Cell 3 </td>
</tr>
<tr>
<td> ROW2, Cell1 </td>
<td> Row 2, Cell 2 </td>
```



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```
<td> Row 2 , cell 3 </td>
</tr>
</table>
```

Conclusion:

The code is a straight forward implementation of an HTML table. It effectively showcases how to organize information in tabular format which can improve data presentation and make it easier for users to digest and compare information.

Post Practical Question:

1. What are the benefits of using CSS to style tables instead of inline HTML attributes?

Ans: Separation of Concerns, Reusability, Consistency, flexibility, Ease of Maintenance, Performance, Media Queries, Easier Collaboration.

2. How would you handle large tables with many rows and columns to improve readability and usability?

Ans: Pagination, infinite scrolling, sorting and filtering, responsive design, highlighting important data, sticky header and columns, collapsible rows or sections, use of cards or alternating layers.

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Marks out of 10	



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EXPERIMENT NO: 10

Aim: Create a webpage and use the following TAG to perform operation.

1. Use the `<frameset>` tag to create a webpage with two frames.
2. Use the `<frame>` tag to define the content of each frame.
3. Specify different attributes like border, frameborder, framespacing, and marginwidth for the frames.
4. Set the width and height of the frames using the cols and rows attributes in the `<frameset>` tag.
5. Create a navigation menu in one frame and display the corresponding content in another frame using the target attribute in the `<a>` tag.

Description:

This practical shows the use of the `<frameset>` and `<frame>` tags to create a webpage with two frames. The webpage includes a navigation menu in one frame and displays related content in another frame using the `target` attribute. Attributes like `border`, `frameborder`, `framespacing`, and `marginwidth` are also demonstrated to control the appearance and spacing of frames.

Procedure: Frame.html

*New file

```
<html>
  <head>          </head>
  <body>
    <h1> Hello world!</h1>
  </body>
</html>
```

*P02.HTML

```
<html>
  <head>          </head>
  <body>
    

```

~~Frame.html~~

```
<html>
  <head>
    <title>frame demo</title>
  </head>
  <frameset rows="20,5,1,28,7,1">
```



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```
<frame src="1.html" />
<frame set cols="50%",50%">
<frame>
</frame set>
<frame src="Pf2.html" />
Conclusion: <frameset>
</html>
```

Output:-

20.5.1.	
Hello world	50.1.
image	

Post Practical Question:

1. What are the drawbacks of using frames in modern web development, and what alternatives exist?

Ans: Drawbacks of frames;

- ↳ SCO issues
- ↳ Accessibility Problem
- ↳ Browser compatibility issues
- ↳ security risks

Alternatives

- ↳ CSS layouts
- ↳ JavaScript libraries
- ↳ Ajax
- ↳ HTML semantic elements

2. How can you handle issues related to frame security and browser compatibility?

Ans: Frame security:

1. use HTTPS encryption
2. set Content Security Policy
3. use sandbox attributes

Browser Compatibility.

1. cross-browser testing
2. standard HTML/CSS
3. Javascript libraries

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Marks out of 10	



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EXPERIMENT NO: 11

Aim: Create a webpage for online Jewellery shopping.

1. Display Menu in left frame.
2. Clicking on menu should display related webpage in right frame.
3. Keep header and footer frames to display related information.

Description:

In this exercise, a webpage is designed using frames to create a simple online jewelry shopping interface. The left frame displays the menu, and clicking on the items in the menu displays the related content in the right frame. Additionally, a header and footer are used to display additional information.

Procedure:

```
<main>
<section id="Products">
<h2> our collections </h2>
<div class="product-container">
  <div class="product-container">
    <div class="product-card">
      
      <h3> Gold Ring </h3>
      <p> $ 500 </p>
      <button> Add to Cart </button>
    </div>
    <div class="product-card">
      
      <h3> silver Bracelet </h3>
      <p> $ 250 </p>
      <button> Add to cart </button>
    </div>
  </div>
</section> </main>
```



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<footer>

<p> © 2023 Jewelry Boutique All rights reserved

</footer>

</body>

</html>

Conclusion:

The basic template serves as a starting point for an online jewelry shopping website and you can expand it further with additional features and functionalities as needed.

Post Practical Question:

- How would you enhance the user experience by integrating JavaScript or CSS animations in your jewelry shopping website?

Ans: To enhance user experience on the jewelry shopping website, implement JavaScript for dynamic features like adding product to a shopping cart with real-time updates and filtering options in corporate. CSS animations for button hover effects and smooth transitions when displaying product details or images.

- How can you make your shopping website responsive for mobile and tablet devices?

Ans: To make the shopping website for mobile and tablet devices, utilize CSS media queries to adjust element font sizes and image dimensions based on screen width, implement a flexible grid system or CSS flex box. Product cards stack appropriately on smaller screens while maintaining a visually appealing arrangement. Additionally, use relative units for padding and margins to ensure consistent layout across different devices.

Signature with Date of
Completion

Marks out of 10



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EXPERIMENT NO: 12

Aim: Create web page for register online exam form filling process.

Description:

This practical involves creating a form for registering for an online exam. The form uses various form elements like `<input>`, `<select>`, `<textarea>`, and buttons for user input. The exercise highlights form validation, data submission, and user interaction on a webpage.

Procedure:

```
<div class="container">
<h1>exam Registration Form</h1>
<form action="submit.php" method="POST">
<label for="name">Full Name : </label>
<input type="text" id="name" name="name" required>
<label for="phone"> phone </label>
<input type="tel" id="phone" name="Phone" required>
<label for="exam"> select Exam </label>
<select id="exam" name="exam" required>
<option value="Math"> Mathematics </option>
<option value="Science"> Science </option>
<option value="Literature"> Literature </option>
</select>
<button type="submit"> Register </button>
</form>
</div>
</body>
</html>
```

online registration
form password

Full Name : _____

Phone no. : _____

Exam name : _____



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EXPERIMENT NO: 13

Aim: Create a Web page to display your resume.

```
<h1> Your name </h1>
<p> E-mail: your_email@example.com / Phone: (123) 456-7890 </p>
<p> location : city - state </p>
</header>
<section id="summary">
<h2> Summary </h2>
<p> Brief summary about yourself and your career goals </p>
</section>
<section id="experience">
<h2> Experience </h2>
<div class="job">
<h3> Job title - company name </h3>
<p> month yyyy - Present </p>
<ul>
<li> Responsibility or achievement </li>
<li> Responsibility or achievement </li>
<li> Responsibility or achievement </li>
</ul>
<section id="skills">
<h2> Skills </h2>
</section>
</div>
</section>
```



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Description:

This practical involves creating a more detailed and formatted resume using HTML. Sections like personal details, education, work experience, and skills are presented using appropriate tags like `<h1>`, `<p>`, ``, and `<table>`. This showcases how HTML can be used to create professional online resumes.

Procedure:

```
<ul> Skill 1 </ul>
<ul> Skill 2 </ul>
<ul> Skill 3 </ul>
<ul> Skill 4 </ul>
<ul> Skill 5 </ul>
</ul>
</section>
<footer>
<p> 2023 Your Name </p>
</footer>
</body>
</html>
```

Conclusion:

The provided HTML and CSS creates a simple, structured webpage to display a resume, featuring sections for personal information, experience, education and branding.

Post Practical Question:



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- What enhancements can you add to make the resume more interactive, such as using modal windows or downloadable sections?

Ans: To enhance the resume interactivity you could add modal windows to display detailed information about each job experience when clicked, providing a more in-depth overview without cluttering the main page. Implementing downloadable sections, such as a version of the resume, could allow users to easily save or print a copy.

- How would you update your resume in the future while maintaining consistency and formatting across devices?

Ans: To update your resume in the future and maintain consistency across devices, responsive web design techniques should be adopted to adapt the layout for different screen sizes, ensuring readability on desktops, tablets and smartphones. Implement CSS frameworks like Bootstrap to maintain a cohesive appearance and ease of updates. Additionally, utilize a version control system like Git to track changes and collaborate efficiently, ensuring consistency over time.

Signature with Date of Completion	<i>[Signature]</i> 2023-07-20
Marks out of 10	10



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EXPERIMENT NO: 14

Aim: Show the use of all tags and attributes of ordered list and unordered list.

Description:

In this practical, ordered and unordered lists were created using `` and `` tags. Different attributes of lists were explored, such as the `type` attribute for ordered lists (e.g., numbers, letters) and various bullet styles for unordered lists. This practical highlights how to create and style lists on a webpage.

Procedure:

```
<ul>
<li> Item 1 </li>
<li> Item 2 </li>
<li> Item 3 </li>
```

```
</ul>
```

```
<li> step 1 </li>
<li> step 2 </li>
<li> step 3 </li>
```

Conclusion:

use responsive webdesign techniques to adopt the layout for various devices. implement a css framework like Bootstrap for consistency and ease of updates. utilize a version control system like git to track changes and maintain format use responsive webdesign techniques for layout adoptability.

implement a CSS framework like Bootstrap for consistent appearance