



**SILVER OAK
UNIVERSITY**
EDUCATION TO INNOVATION

Silver Oak University
SILVER OAK COLLEGE OF COMPUTER APPLICATION
DEPARTMENT OF BACHELOR OF SCIENCE
HTML Markup for Web Designers
Course Code: 4040243136
1st semester

Laboratory Manual

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CERTIFICATE

This is to certify that

Mr./Ms. Vaghela Neha Devkavita Singh

With enrollment no 240403040009 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 - 25.

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.

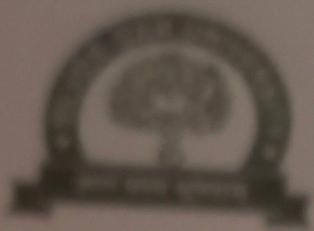
Description:

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.

```

<!DOCTYPE html>
<html>
<head>
    <title>web page</title>
<style>
    body {
        background-color: yellow;
    }
    h1 {
        color: green;
    }
    p {
        color: blue;
    }
</style>
</head>
<body>
    <h1>this is an heading</h1>
    <p>This is a paragraph</p>
</body>
</html>

```



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EDUCATION INFORMATION

achieving the ultimate success...
This is simple... determination.

Skills

and knowledge

Knowledge

and skills

ability
to learn

Responsibilities

1. Develop a solid educational background in your chosen field.

with a CGS background rating 2000 plus. This will help you in getting a background income. Related job in factory or office industry.

2. Develop a solid financial background.

for the financial body state. And you will also make money from your job in the background industry.

Business and Finance Courses	
Business and Finance	



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EXPERIMENT NO. 2

Aims: 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 (``) and superscript (``) 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></i>`) to emphasize specific parts of the text.

Procedure:

To use Subscript and superscript, you can use the HTML tags `` for subscript and `` for superscript; to align text use the `align` attribute with a block element like `<div>` or `<p>` to format text use `` for bold and `<i></i>` for italic. Here is an example:

~~<p align="center">~~

This is ~~bold and <i>italic</i> elements~~
~~text~~

- ~~</p>~~

~~<p>~~

H ~~₂~~ O is water, and E=mc ~~²~~

~~is a famous equation~~

~~</p>~~



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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>`, `<td>`, and `<thead>` 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: HTML Table Syntaxe - code .

```
<!DOCTYPE HTML>
<HTML>
<head>
<title>creat table </title>
</head>
<body>
<table align="center" border="1">
<tr>
<td>cell 1</td>
<td>cell 2</td>
<td>cell 3</td>
</tr>
<tr>
<td>cell 4</td>
<td>cell 5</td>
<td>cell 6</td>
</tr>
<table>
</body>
</HTML>
```



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Ques-Part:

cell 1	cell 2	cell 3
cell 4	cell 5	cell 6

Question:

For Practice Questions

1. What tag is used to create a header cell?

- (a) <td>
- (b) <tr>
- (c) <thead>
- (d) <caption>

Answer:

c. <thead>

2. What does the <tr> tag represents in an HTML code?

- (a) A table cell
- (b) A table row
- (c) A table header
- (d) A table caption

Answer:

b. A table row

3. What tag is used to define a header cell in a table?

- (a) <td>
- (b) <tr>
- (c) <thead>
- (d) <caption>

Answer:

b. <th>



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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"
<!-- Responsive design ... -->
<meta name = "description" content = "This is a simple webpage
example using meta and the
doctype tag.">
<title> Simple webpage example
</title>
<style>
</style>
```

Conclusion: ~~The `<!DOCTYPE html>` ensures the page is rendered in strict mode according to HTML 5.~~

Post Practical Question: ~~Metadata: The `<head>` section contains vital elements like character encoding, responsive design settings, and SEO description, enhancing browser understanding and search visibility.~~



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Content Structure: The (body) section include main content such as heading and paragraph, guiding visitors on the pages purpose

- styling: Basic CSS enhances the visual layout, improving user experience and accessibility

Signature with Date of Completion	
Marks out of 10	

```
body {  
    font-family: Arial, Sans-serif; /* Basic styling */  
    background-color: #f0f0f0; /* light background */  
    color: #333; /* margin around the body */  
    margin: 20px;  
}  
  
h1 {  
    color: #333; /* Darker text color for the header */  
}  
h1  
</style>  
<head>  
<h1> welcome to my simple webpage </h1>  
<p> This is a basic example of an HTML  
document structure with metadate. </p>  
</head>  
<html>
```



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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 `<div>`, `<h1>`, 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: #4CAF50;
    color: white;
}
h2 {
    margin: 0;
}
h2 {
    color: #333;
}
section {
    margin: 20px 0;
    background: white;
    padding: 15px;
    border-radius: 5px;
}

```



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border-radius: 2px; border: 1px solid black; padding: 10px; margin-bottom: 10px;

list-style-type: none;
padding: 0;

112

Conclusion:
Post Practical Question:

This webpage serves a simple but effective way to present a resume online. It is mobile-responsive and user-friendly, using HTML and CSS that can easily be modified or expanded as needed. The structure and style offer clarity and organization, allowing viewers to quickly find the information they are interested in.

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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:

```

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

<ol type = "A" start = "2" reversed>
  <li> STEP 1 </li>
  <li> STEP 2 </li>
  <li> STEP 3 </li>

```

-> Nested list

```

<ul>
  <li> main Item
    <ul>
      <li> Sub Item 1 </li>
    </ul>
  <li> Another main Item </li>
<- <ul>
<ol>
  <li> main step
    <ol type = "a">
      <li> Sub step 1 </li>
      <li> Sub step 2 </li>
    </ol>
  </li>
</ol>

```



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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 the use of hyperlinks</p>
<h2>External link </h2>
<p>visit the <a href = "https://www.wikipedia.org">
    <target = "blank"></a> website to learn about various
    topics</p>
<h2>Internal link </h2>
<p>visit the <a href = "https://www.wikipedia.org">
    <target = "blank"> wikipedia </a> website learn about various topics</p>
</body>
</html>

```

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

Post Practical Question:

This links enhance navigation and interactivity of allowing user to easily access additional resources and contact information.



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1. 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 napping.
`Open Example`
2. 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 webpage add `id` attribute to the target section and use a link with a hash symbol followed by the id. for example:
`Photo Section
<div id="section10">Target section</div>`

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EXPERIMENT NO: 8

1.
 2. <Figure>

The caption for the image (Figures)
 3. <Picture>
<source media="(min-width:650px)" src set="image-large.jpg">
<source media="(min-width:365px)" src set="image-med.jpg">

The image
 4. <source media="(min-width:650px)" src set="image-large.jpg">



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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 `bcolor` 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, cell 1 </td>
    <td>Row 1, cell 2 </td>
    <td>Row 1, cell 3 </td>
  </tr>
  <tr>
    <td>Row2 , cell 1 </td>
    <td>Row2 , cell 2 </td>
    <td>Row2 , cell 3 </td>
  </tr>
</table>

```



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Student Information		
Name	Age	Grade
John Doe	20	A

Conclusion:

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

Post Practical Questions:

- 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.

- 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 headers and footers, collapsible rows or sections, use of cards or dropdown menus.

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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.

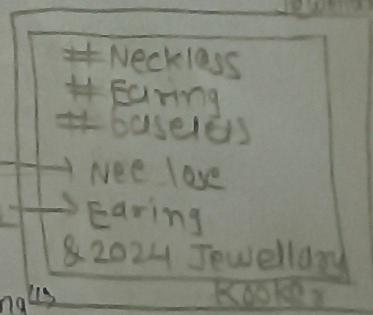
(1)

Procedure:

```

<main>
  <section id="Products">
    <h2>Our Collections</h2>
    <div class="products-container">
      <div class="product-container">m1
        <div class="product-card">
          
          <h3>Gold Ring </h3>
          <p>$500</p>
        </div>
        <button>Add to Cart</button>
      </div>
      <div class="product-card">m2
        
        <h3>Silver Bracelet</h3>
        <p>$250</p>
        <button>Add to Cart</button>
      </div>
    </div>
  </section>
  <main>
    <p>© copy ;2023 Jewellery Boutique All rights reserved</p>
  </main>
</body>

```





<body>
</html>

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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:

(1)

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

Ans To change user experience on the jewelry shopping website implement JavaScript for dynamic feature like adding product to a shopping cart with real-time updates or options Incorporate CSS animations for button hover effects and smooth transitions when displaying product details or images.

- How do you handle issues related to frame security and browser compatibility?

Ans:

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

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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.

(11)

Procedure:

```
<div class="container">
<h1>Exam Registration form</h1>
<form action="submit.php" method="post">
<label for="name"> Full form</label>
<label for="phone"> Phone </label>
<input type="tel" id="phone" name="phone" required>
<label for="exam"> Select Exam required</label>
<select>
<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 Exam registration registration form	
Full name :	password : _____
Email Id :	Register
Phone no :	
Exam name :	



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Q10

```
<table> <tr> <td> "50%"</td>
<td> "50%"</td>
</tr></table>
<frame src = "pr2.html"/>
<frameset cols = "50%, 50%">
</frameset>
<html>
```

Output

50%	50%
Hello world	

2.0.5%

image

Post Practical Question

Q10

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

Ans Drawbacks of frame:

SEO issues

Accessibility Problem

Browers compatibility issue

Security risks

AHPractices

CSS layouts

JavaScript libraries

Ajax

HTML semantic elements

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

Ans Frame security

1. USE HTTPS encryption

2. Content security Policy

3. USE SandBox attribute

Browser compatibility

4. Choose browser specific

2. Standard HTML/CSS

3. Java script libraries

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>, <checkbox>, and buttons for user input. The exercise highlights form validation, data submission, and user interaction on a webpage.

Procedure:

<html>

1) frame.html

* new file prj.html

<html>

<head> </head>

<body>

<h1>Hello world</h1>

</body>

</html>

* prj.HTML

<html>

<head></head>

<body>

frame.html

<html>

<head>

<tittle>frame demo</tittle>

</head>

<framegt;rowspan="20.5%*23.7%">

frame src="" />



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EXPERIMENT NO: 13

Activity: Create a Web page to display your resume.

```
<html>
<head>
<title>Your Name</title>
<p>Email : your_email@your_domain.com & Phone : +91 9876543210</p>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<h2>Summary</h2>
<div>A brief summary about yourself and your career goals</div>
<h2>Experience</h2>
<div class="job">
<h3>Job Title: Company Name</h3>
<p>Month, year - present</p>
<ul>
<li>Responsibility or achievement</li>
<li>Responsibility or achievement</li>
<li>Responsibility or achievement</li>
</ul>
<h2>Skills</h2>
</div>
</body>
</html>
```



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Resumation:

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 <div>, <p>, , and <table>. This showcases how HTML can be used to create professional online resumes.

Discipline:

```
<ul>skills</ul>
  <li>skill 1</li>
  <li>skill 2</li>
  <li>skill 3</li>
  <li>skill 4</li>
<li>skill 5</li>
</ul>
</div>
</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:

Q 08



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

Ans: The 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.

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

Ans: To update your resume in the future maintaining across device responsive web design technique adapting the layout for different screen size, ensuring readability on desktops, tablets, and smartphones.

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Marks out of 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>
```

```
<ol type="A">
  <li>Step 1</li>
  <li>Step 2</li>
  <li>Step 3</li>
```

Conclusion:

use a responsive webdesign techniques to adapt the layout for various devices.
use responsive webdesign techniques for layout adaptability.

Implement a css frame work like bootstrap for consistent.



First Practical Question:

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

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

Answer:

C

2. What attribute can you use to specify the starting number of an ordered list?

- a) start
- b) type
- c) value
- d) list-item

Answer:

d. number

3. Which of the following tags is used to define each item in a list?

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

Answer:

C

4. What is the default bullet style for an unordered list created with the tag?

- a) Square
- b) Circle
- c) Disc
- d) None

Answer:

d. None



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5. Which attribute can be used with the tag to change the numbering style of the list?

- a) start
- b) type
- c) style
- d) numbering

Answer:

b. type

vii. pizza

- PEPPERONI
- mushrooms
- viii. ice creams
- flowers;
- chocolate
- vanilla
- ix. sushi
- x. Tacos
- xi. Burgers

Signature with Date of Completion	
Marks out of 10	

Kiran