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EDUCATION TO INNOVATION

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>
<Head>
<title> My Webpage </title>
</head>
<body>
<h1> welcome to My webpage. </h1>
<p> This is a simple webpage </p>
</body>
</Html>
```

1) Background of HTML

```
<body style = "background-color: lightblue;">
<2> webPage with different colors.
```

```
<Style>
```

```
Body {
```

```
background-color : lightblue;
```

```
}
```

```
h1 {
```

```
color: darkblue;
```

```
}
```

```
p {
```

```
color: green;
```

```
}
```

```
</Style>
```



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Conclusion: Creating and customizing an HTML document is a fundamental skill in web development. By following the above steps, you can easily create a simple webpage and modify its background and text colors using inline or external internal CSS. This process helps you understand the structure of an HTML document and how CSS styles can be applied to enhance its appearance.

Post Practical Question:

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

Ans: Cascading style sheets (CSS)

2. How would you change the colors dynamically using JavaScript?

Ans: `element.style.color = "green";`

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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:

```
<!Doctype HTML>
<html>
<head>
<title> Webpage </title>
</head>
<Body>
H<sub>2</sub>O
X<sup>2</sup> Y<sup>2</sup>
<p style = "text-align : center ; "> centered text </p>
<p style = "text-align : right ; "> Right - aligned text </p>
<p> This is <b> Bold </b> text </p>
<p> This is <i> italic </i> text </p>
</Body>
</html>
```



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Conclusion: The use of subscript and superscript tags helps in displaying scientific notations, mathematical formulas, and similar content effectively. The alignment of text using the text-align property ensures proper organization of content. Formatting tags like bold, and italic improve the visual hierarchy and emphasize important information.

Post Practical Question:

1. Which tag is used to display text as a subscript in HTML?

- a) <sup>
- b) <sub>
- c) <script>
- d) <small>

Answer:

B) <sub>

2. Which of the following tags is used to display text as superscript in HTML?

- a) <sub>
- b) <i>
- c) <sup>
- d) <u>



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Answer:

c) <Sup>

3. What is the correct way to align text to the center in a paragraph using HTML?

- a) <p align="right">This is centered text</p>
- b) <p align="center">This is centered text</p>
- c) <p style="center">This is centered text</p>
- d) <p text-align="center">This is centered text</p>

Answer:

<P align = "center" > This is centered text </p>

4. Which tag is used to make text bold in HTML?

- a)
- b) <i>
- c) <u>
- d)

Answer:

a)

5. What is the purpose of the <i> tag in HTML?

- a) To underline the text
- b) To make the text bold
- c) To italicize the text
- d) To strike through the text

Answer:

c) To italicize the text

6. Which tag is used to underline text in HTML?

- a) <i>
- b)
- c) <u>
- d) <sub>

Answer: c) <u>



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7. Which of the following attributes is used to align text within a <p> tag?

- a) text-align
- b) align
- c) style
- d) font-align

Ans :- A) text-align

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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>
<head>
<title>Table </title>
</head>
<body>
<h2> Sample table </h2>
<table border="1" cellpadding="10" cellspacing="0">
<tr>
<td> 1 </td>
<td> 2 </td>
<td> 3 </td>
</tr>
<tr>
<td> 4 </td>
<td> 5 </td>
<td> 6 </td>
</tr>
<tr>
<td> 7 </td> { <td> 8 </td> } <td> 9 </td> } </tr>
</table>
```



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</Body>

</html>

Conclusion:

Post Practical Question:

1. Which tag is used to create a table in HTML?

- a) <table>
- b) <tab>
- c) <tr>
- d) <td>

Answer:

a) <table>

2. What does the <tr> tag represent in an HTML table?

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

Answer:

(B) A table row

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

- a) <td>
- b) <th>
- c) <header>
- d) <cell>

Answer: b) <th>



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4. What attribute is used to add a caption to a table?

- a) <caption>
- b) <tablecaption>
- c) title
- d) description

Answer:

a) <caption>

5. Which attribute would you use to specify the border of a table in HTML?

- a) border
- b) border-style
- c) frame
- d) cellpadding

Answer:

a) border

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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" >
    < meta name = "viewport" 
        content = "width=device-width,
        initial-scale=1.0" >
    <meta name = "description" 
        content = "This webpage demonstrates the content of use of
        <!DOCTYPE Html> declaration and metadata tags." >
    <meta name = "keywords" 
        content = "HTML, DOCTYPE, metadata,
        SEO, responsive webpage" >
<body>
    <h1> welcome to metadata and doctype demonstration </h1>
```

Conclusion: </Body> </Html>

→ By Using `<!DOCTYPE Html>` and metadata tags effectively, you ensure proper rendering of the webpage across browsers and devices, improve SEO, and provide crucial information about the page's content.

Post Practical Question:



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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>
<head>
<title>My Resume </title>
</head>
<body>
<h1>My Resume </h1>
<h2> Darji Nithi </h2>
<h3> Personal Details </h3>
<p> <b>Email:</b> daryinithi365@gmail.com </p>
<p> <b>Phone:</b> 8469217229 </p>
<p> <b>Address:</b> 26, Kesar - 20 - house, Chankaypur,
    Ahmedabad, Gujarat India. </p>
<h3> Education </h3>
<table border = "1">
<tr>
<td> B.Sc - CS. & IT </td>
<td> Silver Oak University </td>
<td> 2024 - present </td>
```



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</h>

</h>

<td> High school </td>

<td> 2019 - 2023 </td>

</tr>

<table>

Conclusion:

<h3> Skills </h3>

 HTML CSS

 Java Script

 Web developing

 Problem Solving

</Body>

</HTML>

Post Practical Question:

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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:

```
<!DOCTYPE HTML>
<html>
<head>
<title> list </title>
</head>
<body>
<h2> ordered list </h2>
<ol type="1" start="3" reversed>
<li> 3 </li>
<li> 2 </li>
<li> 1 </li>
</ol>
<h2> Unordered list </h2>
<ul type="circle">
<li> First </li>
<li> Second </li>
<li> Third </li>
</ul>
</body>
</html>
```



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The `` and `` tags are versatile and allow the creation of ordered and visually distinct lists. Attributes like type, start, and reversed for `` and type for `` provide flexibility in formatting. Nested lists combine ordered and unordered lists to represent hierarchical data effectively.

Conclusion:

Post Practical Question:

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

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

Answer:

b)

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:

b) 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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- a) style
- b) type
- c) bullet
- d) list-style-type

Answer:

Bullet

4. What tag is used to create an ordered list in HTML?

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

Answer: c)

5. Which attribute can you use to change the numbering style of an ordered list?

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

Answer: b) type

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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:

```
<!DOCTYPE HTML>
<head>
    <title> Links </title>
<head>
<body>
    <h1> Using Hyperlinks This </h1>
    <p> Visit an External Website </p>
    <a href="https://www.google.com"> Clicked <b>link</b> </a>
    <a href="#section1"> goto section 1 </a> <br/>
    <a href="#section2"> go to section 2 </a>
    <h2 id="section1"> Section 1 </h2>
    <p> This is section 1 </p>
    <h2 id="section2"> Section 2 </h2>
    <p> This is section 2 </p>
</body>
</html>
```

Conclusion:

Post Practical Question:



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

Ans: Using `target = "-blank"` without `rel = "noopener noreferrer"` can expose the original page to tabnapping attacks, allowing the new page to manipulate a5 redirect it.

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

Ans:

```
<!doctype html>
<html>
<head>
    <title> Anchor Link </title>
</head>
<body>
    <a href="#Section 1"> go to section 1 </a>
    <h2 id="Section 1"> Section 1 </h2>
    <p> This is a section 1 </p>
</body>
</html>
```

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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:

```
<!DOCTYPE Html>
<Html>
<Head>
<title> Image </title>
</head>
<Body>
<h2> Image </h2>
<img src = "Imagelink" alt = "Image" width = "300" height =
= "300";
<h2> Image </h2>
<a href = "https://www.google.com">
<img src = "google photo" alt = "google" width =
"250" height
"150"
</a>
```

Conclusion:

```
</Body>
</Html>
```



Post Practical Question:

1. Which tag is used to embed an image in an HTML document?

- a)
- b) <picture>
- c) <image>
- d) <src>

Answer: a)

2. What attribute is essential for the tag to specify the image source?

- a) source
- b) src
- c) href
- d) file

Answer: b) src

3. What attribute is used in the tag to provide alternative text for an image?

- a) alt
- b) title
- c) description
- d) text

Answer: a) alt

4. How do you specify a caption for an image using HTML?

- a) Using the <figcaption> tag inside the <figure> tag
- b) Using the <caption> tag
- c) Using the alt attribute
- d) Using the <label> tag

Answer: a) Using the <figcaption> tag inside the <figure> tag

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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>, 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:

```
<!DOCTYPE html>
<html>
<head>
<title> Table </title>
<body>
<table border = "1" cellpadding = "10" cellspacing = "5" bgcolor = "Red">
<caption> Student Data </caption>
<tr> bg color = "blue">
<th> align = "center" > Name </th>
<th> align = "center" > ID </th>
<th> align = "center" > Age </th>
</tr>
<tr> bg color = "blue">
<td align = "center" > 1 </td>
<td align = "center" > Alice </td> } </td>
<td align = "center" > 21 </td>
```



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```
<tr> <td style="background-color: blue;">
<td align="center"> 2 </td>
<td align="center"> Ray </td>
<td align="center">
```

Conclusion:

This exercise demonstrates the creation of tables using the `<table>`, `<tr>`, `<th>`, and `<td>` tags. Captions and borders enhance the table's usability and appearance. Attributes like `align`, `valign`, `border`, `cellpadding`, and `cellspacing` provide customization for layout and styling.

Post Practical Question:

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

Ans:

Using CSS to style tables allows for cleaner, more maintainable code and provides greater flexibility and control over styling.

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

Ans: Use features like fixed headers, row highlighting, pagination, and horizontal scrolling.

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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:

Index.html

```
<!DOCTYPE html>
<html>
<frameset rows="20%, 80%">
<frame src="menu.html" border="1" framespacing="5"/>
<frame src="content.html" border="1">
</frameset>
</html>
```

menu.html

```
<!DOCTYPE html>
<html>
<body>
<h1>navigation </h1>
<ul>
<li><a href="page 1.html" target="content">page 1</a></li>
<li><a href="page 2.html" target="content">page 2</a></li>
<li><a href="page 3.html" target="content">page 3</a></li>
</ul>
</body>
</html>
```



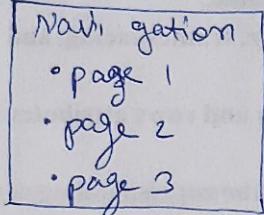
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output:

- webpage layout
- top frame (Navigation menu)

Conclusion:



- Bottom frame
- Click on page 1' 2' 3'
- display content " in
- bottom of frame.
- of page = 1, 2, 3

Post Practical Question:

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

Ans:

Drawbacks of frames:

- SEO issues
- Accessible problem
- Browser compatibility
- Security issues

Alternatives

- CSS layout
- Javascript libraries
- asay
- 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 Sanbox attribute.

Browser compatibility

1. Cross browser testing
2. standard browsers
3. Java Script libraries

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EXPERIMENT NO: 11

Aim: Create a webpage for online Jewellery shopping.

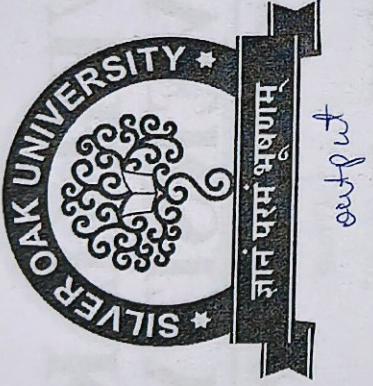
1. Display Menu in left frame.
2. Clicking on menu should display related webpage in right frame.
3. Keep header and footer frames to display related information.

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:

```
<!DOCTYPE HTML>
<HTML>
<Head>
    <title> Jewellery Shop </title>
    <link href = "stylesheet" href = "style.css" />
</head>
<body>
    <nav>
        <ul>
            <li> <a href = "# necklaces" > Necklaces </a>
            </li>
            <li> <a href = "# earring" > earring </a> </li>
            <li> <a href = "# rings" > ring </a> </li>
        </ul>
    </nav>
    <main>
        <section id = "necklaces">
            <h2> Necklaces </h2>
            <img src = "necklaces.jpg" />
        </section>
    </main>
</body>
</html>
```



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output

Conclusion:

This experiment demonstrates how to create a webpage layout using frames. The <frameset> tag is used to define the overall structure, and individual <frame> tags are used to load specific content into designated areas. The use of frames makes it easier to design a multi-page webpage where the menu, content, header, footer.

Post Practical Question:

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

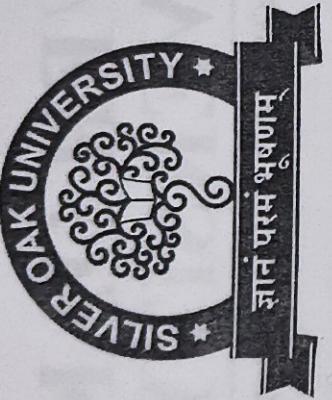
Ans: By adding visual interest, guiding user attention, providing feedback, improving usability.

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

Ans:

Use a responsive theme
↳ A responsive theme is the easiest way to make a website responsive, as it's already built-in.
↳ Optimize images
Decrease and compress images to reduce loading time without compromising quality.

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EXPERIMENT NO: 12

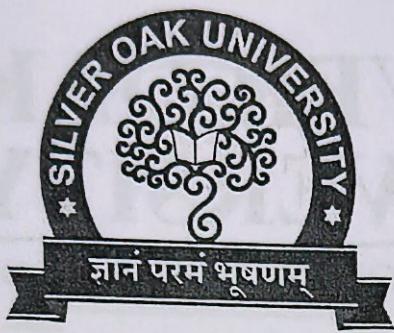
Aim: Create web page for register online exam form filling process.

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:

```
<!DOCTYPE Html>
<Html Lang="en">
<head>
<meta charset="UTF - 8">
<meta name="viewport".
Content="Width=device-width, initial-scale = 1.0">
<title> Online Exam Registration </title>
<link href="stylesheet" href="styles.css">
</head>
<body>
<header>
<div class="logo">
<h1> Exam portal </h1>
</div>
<nav>
<ul>
<li><a href="#"> Home </a> </li>
<li><a href="#"> Exam details </a> </li>
<li><a href="#"> Register </a> </li>
<li><a href="#"> Contact Us </a> </li>
</ul>
</nav>
</header>
<main>
<h2>Online Exam Registration form filling process </h2>
<form id="registration form" -
action="submit-form.php" method="post">
EncType="multipart/form-data">
```



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Conclusion: This code provides a structured, multi-step form for online Exam registration. It guides Users through creating an account, selecting an Exam, Entering personal details, uploading documents, choosing an Exam center, making payment etc.

Post Practical Question:

1. Which HTML tag is used to create a form in a webpage?

- a) <input>
- b) <form>
- c) <register>
- d) <fieldset>

Answer: b) <form>

2. What attribute is used to specify the method of form submission in HTML?

- a) action
- b) method
- c) submit
- d) enctype

Answer:

Method

3. Which input type would you use for a text field where users can enter their names?

- a) <input type="number">
- b) <input type="text">
- c) <input type="email">
- d) <input type="password">

Answer:

<input type="text">



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4. Which CSS property would you use to change the background color of the form?

- a) color
- b) background
- c) bgcolor
- d) background-color

Answer:

Background - color

5. What is the purpose of the <label> tag in a form?

- a) To create a text input
- b) To provide a clickable area for form controls
- c) To define a form section
- d) To display error messages

Answer:

To create a text input

6. Which CSS property is used to adjust the spacing between the form fields?

- a) margin
- b) padding
- c) border
- d) spacing

Answer:

Padding

7. How can you make a field required in a form?

- a) By adding the required attribute to the input tag
- b) By using the mandatory attribute
- c) By adding required="true" in the form tag
- d) By setting the validate attribute to true

Answer:

By adding the required attribute to the Input tag



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EXPERIMENT NO: 13

Aim: Create a Web page to display your resume.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset = "UTF - 8">
< meta name = "viewport" >
Content = "width= device-width,
Initial - Scale = 1.0" >
<title> your resume </title>
<link rel = "stylesheet" href = "style.css" >
</head>
<body>
<header>
<div class = "logo" >
<h1> your Name </h1>
<p> professional title (e.g., actor, software engineer, etc.) </p>
</div>
</header>
<main>
<section id = "contact" >
<h2> contact information </h2>
<ul>
<li> Email: your.email@example.com </li>
<li> phone: +91 67899110 </li>
<li> linkedin : <a href = "https://www.linkedin.com/in/
your - profile" target = "blank" > your -
profile </a> </li>
```



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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:

```
<li> portfolio : <a href = "https://yourportfolio.com" target = "blank"> yourportfolio.com </a></li>
<ul>
</ul>

<section id = "summary">
<h2> professional summary </h2>
<p>
    a brief description of your professional background, Experience, career goals. This is a summary of who you are and what you bring to the table. </p>
</section>
</body>
</html>
```

Conclusion:

This code provides a simple, clean, and professional layout for displaying your resume online. The HTML structure organizes your contact information, professional summary, skills, work experience, education, and certificates.

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:

- 1) choose your app
- 2) Develop your structure
- 3) Use collapsible buttons for Lengthy sections
- 4) Add hyperlinks to your online platforms
- 5) Include an infographic
- 6) Animate

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

Ans:

- Save as a PDF
A pdf is the safest format to use because it preserves the formatting across all devices.
- Use a word processor's built in tools.
word processors like Microsoft Word or google docs have feature like templates, styles, and theme to help maintain Uniform formatting

Signature with Date of Completion	
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:

`` : defines an ordered list. ordered lists are used to create lists of items in a specific order, such as steps in a recipe or turn-by-turn directions.

`` defines an unordered list.

`` defines list items

`<dl>` defines a description list

`<reversed>` an attribute of `` tag that specifies that the list ~~will~~ be reversed.

Conclusion: `<start>` An attribute of the `` tag that specifies that start value of an ordered list.

`<type>` An attribute of the `` tag that specifies the form of marker off to use in the list.



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Post Practical Question:

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

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

Answer:

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

- a) start
- b) type
- c) value
- d) number

Answer:

start

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

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

Answer:

<list-item>

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

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

Answer:

Disc



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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:

type

Signature with Date of Completion	
Marks out of 10	