COMPUTER APPLICATIONS
12. HTML - Adding multimedia elements and Forms
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Part – II

Answer to the following questions (2 Marks):

1. List out the popular image formats.

Most of the browsers supports, GIF, JPEG and PNG images formats

- GIF (Graphical Interchange Format)
- JPEG (Joint Photographic Experts Group)
- PNG (Portable Network Graphics)

2. Write down the general format of marquee

General format:

    <marquee> Text or image to be scroll </marquee>

3. What is inline sound or movie?

Music can be played in the background to a webpage, while the page is viewed. This is known as '**inline'** sound or movie..

4. What is the purpose of <input> tag?

The purpose of <input> tag is to form controls, form controls are created by using <input> tag. The <input> is an empty tag used to create different form elements or controls such as text box, radio buttons so on.

5. Which tag is used to specify the list of items in dropdown list box?

- The <**select**> tag is used to create dropdown list box in HTML.
- It provides a list of various options as a dropdown list

6. What are the major attributes are available in <textarea> tag? Define <textarea>

The <Textarea> tag used to receive multi line text data as input. It is a container tag. The main attributes of <Textarea> are

Name – Used to define name to the control

Rows – Specifies the number of rows in the text area control

Cols – Specifies the number of columns in the text area. (number of **characters** in a line)

Part – III

Answer to the following questions (3 Marks):

1. Write a short note on familiar images format.

i. GIF (Graphical Interchange Format)

- This format is one of the popular format for **animated images**.
- It was developed by **CompuServe**.
- This format is suitable for presenting tiny animated images, logos, icons,etc.,
- It is not suitable for photographic work, because it uses maximum of **256** colours.
- Animated **GIF** do not support sound or playback control.

ii. JPEG (Joint Photographic Experts Group)

- JPEG is the most popular image format supported by all web browsers.
- This format is suitable for photographic images.
- JPEG can include any number of colours.(supported Full color)

iii. PNG (Portable Network Graphics)

- PNG is designed as a replacement for **GIF**.
- It is also supported by all browsers.

iv. SVG (Scalable Vector Graphics) ---- HTML-5 introduces SVG images.

- SVG is a graphics format that was developed for web.
- It was standardized by World Wide Web Consortium (**W3C**) in **2001**.
- All current web browsers supports basic features of **SVG**.

2. How will you scroll the text in HTML?

The HTML <marquee> tag is used for scrolling piece of text or image image can be moved horizontally or vertically.This feature makes a web page as more attractive.

General format:
    <marquee> Text or image to be scroll </marquee>

Attributes of <marquee>

Attribute	Value	Description
behavior	Scroll, slide, alternate	• Used to specify the type of scrolling.
direction	Up, down, left, right (Default is left)	• To specify the direction of the movement of text or image. • The text or image will move towards right to left by default.
Height & Width	pixels or %	• These attributes are used to set height and width of the marquee.
loop	number	• Specifies how many times to loop. The default value is INFINITE, which means that the marquee loops endlessly.
scrolldelay	Seconds(time unit)	• Used to Defines time delay between each jump.
scrollamount	number	• Used to Defines the speed of the scroll.
Vspace & Hspace	pixels or %	• Specifies vertical space around the marquee.

3. Explain the main attributes used with <form> tag.
       Main Attributes used with <form> tag
The important attributes used with the <form> tag are method and action attributes.
Method
The method attribute of the **form** tag is used to identify how the form element names and values will be sent to the server.
The **get** method will append the names of the form elements and their values to the URL.
The **post** method will send the names and values of the form elements as packets.
Action
The **action** attribute identifies the server side program or script that will process the form.
The action will be the name of a Common Gateway Interface (CGI) program written in programming languages like Perl, JavaScript, PHP or Active Server Pages (ASP).
       General Format of <form> tag
             <Form method=get/post action= "back_end_server_script">
                Form elements
             </Form>

4. Explain the values of <input> tag's type attribute.

Value of type attribute	Description
Text	Create a **Text Box**. The element used to get all kind of text input such as name, address etc.,
Password	**Similar** as Text box. But, while entering data, the characters are appearing as coded symbols such as **asterisk**.
Checkbox Multiselect box	Check box is an element appearing like a small square box. When the user click on the square a tiny tick mark will appear inside the square. This element is used to select **multiple** options.
Radio Button	Radio button is used to select **any one** of the multiple options from the list. This element looks like a small circle, when the user select an item, a tiny dot will appear within the circle. If the user selects another option, previously selected option will be **deselected**. This means, user can **select any one** of the given option form a group.
Reset	It is a special command button used to **clear all** the entries made in the form.
Submit	It is also a special command button used to **submit all** the entries made in the form to the backend server.
Button	This is a **standard graphical** button on the form used to call functions on **click**.

5. Explain the attributes of <select> and <option> tags. or Define select and Option tag? With its attributes

- The <**select**> tag is used to create dropdown list box in HTML.
- It provides a list of various options as a dropdown list.
- This element is more helpful when a number of options are to be displayed in a limited space.
- The <option> tag is used to specify list items.

Attributes of <Select> tag:	Attributes of <Option> tag:
Name – Provide the name to the control, which is sent to the server.	**Selected** – Indicate default selection
Size – Determine the style of dropdown list box. Size = 1 dropdown list box Size = 2 List box	**Value** – Value to be submitted to server
Multiple – Allows user to select multiple values.	

Book Question

How will you Inserting Images with HTML document or Define IMG tag.

The **<IMG>** tag along with the attribute **src** (Source) is used to add images in HTML document. **Images** displayed on the web page should be converted to universally supported format.

General format:

<img src = **image_name_with_extension**>   (OR)   <img src = **URL**>

Note: If the image is not in the current working folder, the image file name should clearly specify with the path of the file or URL, where the file is available.

Example: <img src = "**D:\images\animals\cat.jpeg**">

Attributes of <img> tag:

Attributes of <img> tag:	Description
Src (Source)	The main attribute used to specify the file name of the image to be inserted
Alt (Alternative Text)	Attribute used to describe the image
Width and Height	Attributes are used to set the width and height of an image. The values **pixels** or **percentage** of its actual size.
Vspace (Vertical Space) & **Hspace** (Horizontal Space)	Attributes are used to set Vertical and Horizontal space between the images.
Align	The align attribute used to aligns the image with respect to the **base line** of the text. **Bottom** – Aligns the bottom of the image with the baseline of the text. **default** setting. **Middle** – Aligns the middle of the image with the baseline of the text. **Top** – Aligns the top of the image with the baseline of the text.
Left and Right values of Align attribute	Its displayed the image on the left and right side of the text.

Note: the browser displays the image in its **original** size. when attributes are not specified

Example:

<img src ="bharathiyar.gif" alt ="National Poet of India" Width=20% Height=25% vpace = 20 Hspace = 20>

How will you add Video and Audio into the Webpage

- Video and Sound are the core part of the modern web pages.
- A video or audio content may be included as Inline or external data.

Inline	External
The **inline** refers to audio or video files are handled as part of the page.	The **External** refers linking external audio or video files as url.

- The **<embed>** tag is used to attach an audio or video file easily within webpage.
- This**<embed>** tag includes the **controls** of the multimedia automatically in the browser.

- The **\<noembed\>** tag may be used as an **alternate** to display some other media file, in the case of the browser does not support <embed> tag.

Attribute of \<embed\> tag

- **Src** is the primary attribute used with <embed> tag.
- The src attribute used to specify the name of the media file with its source location.
- Other attributes such as alt, height, width and align are used as it is used with <img>.

General Format:

> **\<embed src = audio / video file name with location\> \</embed\>**

How will insert sound or audio file into the html document?

> Music can be played in the background to a webpage, while the page is viewed. This is known as 'inline' sound or movie.

> The <bgsound> tag is used to attach an inline sound file in HTML.

Attributes of \< bgsound \> tag:

> The **src** attribute is used to define the location of the media file.

> The **Volume** attribute used to adjust volume control.

> The **loop** attribute defines the duration of play. The 'infinite' value causes the audio play as long as the page is in view.

General Format: <bgsound src= "music file name with location">

How will insert form into the html document?

- The <form> tag is used to create a form.
- An HTML from starts with <form> and ends with </form> tag.
- Forms contain many types of form elements, such as text boxes, radio buttons, check boxes, buttons and drop-down lists.
- The form has a special element, which is **submit** button, which will submit the entries of a form to a server application to process the entries.
- The values they enter or select are passed with the name of the corresponding form element to the Web server.

Attributes frequently used with \<form\> tag

The important attributes used with the <form> tag are method and action attributes.

Method

The method attribute of the **form** tag is used to identify how the form element names

The **get** method will append the names of the form elements and their values to the URL.

The **post** method will send the names and values of the form elements as packets.

Action

The **action** attribute identifies the server side program or script that will process the form.

The action will be the name of a Common Gateway Interface (CGI)

General Format of \<form\> tag

> **\<Form method=get/post action= "back_end_server_script"\>**
>> **Form elements**
> **\</Form\>**

Form Controls:

> In HTML, there are different types of form controls are used to collect data. They are Text box, Password, Checkbox, Radio buttons, Text area, Select box, Submit and Reset Button.

\<Input\> Tag

> Most of the form controls are created by using <input> tag. The <input> is an empty tag used to create different form elements or controls such as text box, radio buttons so on.

Attributes of \<input\> tag:

Type: This attribute is used define the type of control to be created by <input> tag. The values of type attribute are Text box, Password, Checkbox, Radio buttons, Text area, Select box, Submit and Reset Button.

Name: This attribute of <input> tag is used to assign a name to the input controls. The data values are passed to the server along with the names of the controls.

Value: This attribute is used to define default value to some controls.

Size: This is used to set the width of the input text in terms of characters. It is applicable only for textbox and password boxes.

Maxlength: This attribute of <input> tag is used to set the length of the input character (number of characters to be inputted) to the **textbox** and **password** boxes.

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