HTML Lab - 08 Summary
- **Frame**

- Frame is used to divide the browser window into number of rectangular pane so that different pages can be added to the same window .A pane in a frame refers to one of the rectangular areas created by dividing a frame into multiple sections or regions. Each pane can contain a separate HTML document or web page, which can be loaded independently of the other panes. This allows for the creation of complex layouts with multiple sections, each with its own content.
- Frames in HTML have been deprecated and are not recommended for use anymore. Instead, it is recommended to use modern HTML and CSS techniques such as flexbox and grid to achieve similar layouts.
- Frames in HTML use the <frame> tag, which can be used within a <frameset> tag to create multiple frames on a web page. The <frameset> tag is used to define a set of frames within a web page.

Frame Attributes
- The <frame> tag has the following attributes:
- src: Specifies the URL of the document to be displayed in the frame
- name: Specifies a unique name for the frame, which can be used as a target for links and forms
- scrolling: Specifies whether scrollbars should be displayed in the frame ("yes" or "no")
- noresize: Specifies whether the frame should be resizable by the user ("no" prevents resizing)
- frameborder: Specifies whether the frame should have a border ("1" or "0")
- marginwidth: Specifies the width of the margin around the frame
- marginheight: Specifies the height of the margin around the frame

Frame set Arrtibutes
- cols: Specifies the width of each column in the frameset, separated by commas. For example, cols="25%,75%" would create two columns with the first column taking up 25% of the page width and the second column taking up 75%.
- rows: Specifies the height of each row in the frameset, separated by commas. For example, rows="50%,50%" would create two rows with each row taking up 50% of the page height.
- border: Specifies the width of the border around the frameset. The value is specified in pixels.
- frameborder: Specifies whether each frame in the frameset should have a border. The value can be set to "1" for a visible border or "0" for no border.
- framespacing: Specifies the amount of space between frames in the frameset. The value is specified in pixels.
- name: Specifies a name for the frameset, which can be used as a target for links and forms.
- onload: Specifies a script to be executed when the frameset has finished loading.

Form

- HTML form is an essential element that allows users to input data which is then sent to a web server for processing. It is used for collecting information from users, such as names, passwords, emails, phone numbers, etc. The form element contains various input fields like text boxes, radio buttons, checkboxes, drop-down lists, and more.
- There are several HTML tags that are commonly used in forms. Here are some of the most important ones:

- <form>: This tag is used to create a form and contains all the other form-related tags.
- <input>: This tag is used to create form fields such as text boxes, radio buttons, checkboxes, and more.
- <label>: This tag is used to associate a label with a form field.
- <select>: This tag is used to create drop-down lists and option menus.
- <option>: This tag is used to define an option within a drop-down list or option menu.
- <textarea>: This tag is used to create a multi-line text input field.
- <button>: This tag is used to create buttons that can submit or reset a form.
- <fieldset>: This tag is used to group related form elements together.
- <legend>: This tag is used to provide a title or description for a group of form elements contained within a <fieldset>.

Some common attributes of the form tag are:
- action: Specifies the URL to which the form data will be sent when the form is submitted. For example, <form action="https://example.com/form-handler.php">.
- method: Specifies the HTTP method to use when submitting the form. The two most common methods are GET and POST. For example, <form method="post">.
- name: Assigns a name to the form. The name can be used to identify the form in JavaScript, and also to send the form data to the server. For example, <form name="myForm">.
- enctype: Specifies the content type used to encode the form data when submitting the form. The two most common types are application/x-www-form-urlencoded and multipart/form-data. For example, <form enctype="multipart/form-data">.
- target: Specifies the target frame or window in which the form response will be displayed. For example, <form target="_blank"> to open the response in a new window.
- autocomplete: Specifies whether or not the form should be autocompleted. For example, <form autocomplete="off"> to disable autocomplete.
- novalidate: Specifies that the form should not be validated by the browser when submitted. For example, <form novalidate>.
- required: Specifies that a form input field must be filled in before the form can be submitted. For example, <input type="text" name="username" required>.
- placeholder: Provides a hint or example of the expected value in a form input field. For example, <input type="text" name="username" placeholder="Enter your username">.
- readonly: Specifies that a form input field is read-only and cannot be edited by the user. For example, <input type="text" name="username" value="john" readonly>.
- disabled: Specifies that a form input field is disabled and cannot be used or edited by the user. For example, <input type="text" name="username" disabled>.

Form Input types

HTML provides a variety of input types that can be used within forms to collect different types of data from users. Some of the commonly used input types are:

- text:This input type creates a single-line text box for users to enter text.
- password: This input type is used to create a password field that hides the entered text.
- email: This input type creates a text box that is specifically designed to collect email addresses.
- number: This input type creates a text box that accepts only numeric input.
- checkbox: This input type creates a checkbox that allows users to select one or more options from a list.
- radio: This input type creates a set of radio buttons that allows users to select only one option from a list.
- file: This input type creates a file upload control that allows users to select a file from their device.
- date: This input type creates a date picker control that allows users to select a date from a calendar.
- range: This input type creates a slider control that allows users to select a value from a range of values.
- color: This input type creates a color picker control that allows users to select a color.

Lab Exercises

1).
```
<!DOCTYPE html>
<html>
<head>
   <title>Frames Example</title>
</head>
<frameset rows="20%, 80%">
   <frame src="one.html">
   <frameset cols="20%, 80%">
     <frame src="two.html">
     <frame src="three.html">
   </frameset>
</frameset>
</html>
```

2)
```
<!DOCTYPE html>
<html>
 <head>
   <title>Example Frameset</title>
 </head>

   <frameset rows="50%,50%" cols="50%,50%" border="1" framespacing="5">
    <frame src="frame1.html" name="frame1">
    <frame src="frame2.html" name="frame2">
    <frame src="frame3.html" name="frame3">
```

```
    <frame src="frame4.html" name="frame4">
  </frameset>
```

```
</html>
```

3).Input element

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title> HTML Form Input Attribute </title>
```

```
</head>
```

```
<body>
```

```
<h2>Text Input</h2>
```

```
<form>
```

First name:

```
<input type="text" name="firstname">
```

Last name:

```
<input type="text" name="lastname">
```

```
</form>
```

```
</body>
```

```
</html>
```

4). Complete Form

```html
<Html>
  <Head>

  <Title> Student Detail Form </Title>

  </Head>
  <Body>

    <center>

      <h1> XYZ College of IT</h1>
      <b>Student Detail From:</b>

    </center>

    <hr color="blue">

    <form method="post" action="myserver.php">

      <fieldset>

        <legend align="top"> Personal information</legend> <p>Name: <Input type="text"
size=15 name="txt_name" maxlength=25></p>

        <p>Address: <Input type="text" size=25 name="txt_addr" maxlength=45></p>

        <p>Sex: <input type="radio" name="r1" value="male"> Male<input type="radio"
name="r1" value="female" checked> Female</p>


      </fieldset>

      <fieldset>

        <legend align="right">Hobby and education</legend>
        <p>
          Hobbies:
          <Input type="checkbox" name="chk1" value="Watching movies">Movies
          <Input type="checkbox" name="chk2" value="Playing Football" checked>Football
          <Input type="checkbox" name="chk3" value="Reading Nobel">Nobel
          <Input type="checkbox" name="chk4" value="Other">Others

        </p>

        <p>
```

```html
Education:
<select>

    <option value="PHD">PHD</option>
    <option value="Master">Master</option>
    <option value="Bachelor">Bachelor</option>
    <option value="PLUS Two">+2</option>
    <option value="SLC"selected>SLC</option>

</p>

    </select>




    </fieldset>

Few words:

    <br>
    <textarea rows=7 cols=50>

    </textarea>

    <p>

      <input type="Submit" value="Send"> <input type="Reset" value="Clear">
    </p>

    </form>



    </Body>

    </Html>
```

5). Form using table


```html
<html>
<head>
<title>Register Form</title>
</head>
```

```html
<body>
<form>
<table>
<tr>
<td>Name :</td>
<td><input type="text" placeholder="Enter your Name"></td>
</tr>
<tr>
<td>Password :</td>
<td><input type="password" placeholder="Enter your Password"></td>
</tr>
<tr>
<td>Gender :</td>
<td>
<input type="radio" name="Gender" value="male"> Male
<input type="radio" name="Gender" value="female"> Female
<input type="radio" name="Gender" value="other"> Other
</td>
</tr>
<tr>
<td>Hobbies:</td>
<td>
<input type="checkbox" name="hobby" value="dancing"> Dancing
<input type="checkbox" name="hobby" value="singing"> Singing
<input type="checkbox" name="hobby" value="programming"> Programming
</td>
</tr>
<tr>
<td>Attach:</td>
<td><input type="file" name="attachment"></td>
</tr>
<tr>
<td>Email :</td>
<td><input type="email" placeholder="Enter your email"></td>
</tr>
<tr>
<td>Phone no :</td>
<td>
<select name="country_code">
<option value="+977">+977</option>
<option value="+91">+91</option>
<option value="+901">+901</option>
</select>
<input type="text" name="phone_number" placeholder="Enter your phone number">
</td>
</tr>
```

```html
<tr>
<td>Date</td>
<td><input type="datetime-local" name="date"></td>
</tr>
<tr>
<td>Knowledge:</td>
<td><input type="range" name="knowledge"></td>
</tr>
<tr>
<td><input type="button" value="Demo Button"></td>
</tr>
<tr>
<td><input type="submit" value="Submit"></td>
</tr>
<tr>
<td><input type="reset" value="Reset"></td>
</tr>
</table>
</form>
</body>
</html>
```