Form tag

To display button in the form

<!--<input type="submit" name="btn" id="btn" value="login">-->

<button type="submit" name="btn" id="login" value="login">click to Login </button>

There are 3 types of buttons

| type="submit" | - it is used to submit data to the server<br>- The submit button has to be inside the form tag<br>- If user clicks on submit button then submit event occur<br>- If you click on this button then data will be submitted to the server, and the form will get refreshed | <button type="submit" name="btn" id="login" value="login">click to Login </button> |
|---|---|---|
| type="button" | - It is used to allow user to perform click action.<br>- If the type is button, then after clicking you will stay on the same page, and form will not get refreshed<br>- If you click the button then click event occur | <button type="button" name="btn" id="login" value="calculate">calculate </button> |
| type="reset" | - it is used to clear all fields in the form | <button type="reset" name="btn" id="cancel" value="cancel">cancel </button> |

In the form you may display following controls

input tag

| type="text" | It is used to display one liner text box | <input type="text" name="uname" id="nm">---- to display empty text box<br><br><input type="text" name="uname" id="nm" value="Rajan">---- it will display a text box with Rajan typed in it | - placeholder→ it displays grey text as help, when you type something the grey text will go away<br>- required→ it makes the textbox mandatory<br>- pattern→ use regular expression, to determine the pattern for the value we entered<br>- minlength-> minimum number characters |
|---|---|---|---|

|  |  |  | - maxlength-→ maximum number of characters<br>- size→ it adjust the size of the text box |
|---|---|---|---|
| type="password" | It is used to display one liner text box, but the text typed in it is not visible | <input type="password" name="pass" id="passwd"> | All the attributes of text box can be used in type=password |
| type="radio" | it is used to display radio button, usually radio buttons are used to allow only one of the options selected | <input type="radio" name="gender" id="male" value="male"><br><br><input type="radio" name="gender" id="male" value="male" <mark>checked</mark>>--- to display selected radio button | - value→ attribute is sent to the server when the radio button is checked, if the value property is not set, then true will be send to the server, and hence server will not understand which radio button is selected<br>- checked-→if the radio button is selected the checked property becomes true |
| type="checkbox" | it is used to display checkbox, usually checkboxes are used to allow to select multiple options | <input type="checkbox" name="skills" id="java" value="java">--- empty checkbox<br><br><input type="checkbox" name="skills" id="java" value="java" <mark>checked</mark>> --→ display checkbox is selected | - value→ attribute is sent to the server when the checkbox is checked, if the value property is not set, then true will be sent to the server, and hence server will not understand which radio button is selected<br>checked-→if the radio button is selected the checked property becomes true |
| type="file" | it will show a button choose file, if you cleck on the button it will open browse window, and will allow you to select the file | <input type="file" name="fn" id="fname> |  |
| type="email" | It shows a textbox which allows to enter email, If the data you entered doesnot have @ symbol, | <input type="email" name="fn" id="fname> |  |

| | it will show error when you submit the form | | |
|---|---|---|---|
| type="date" | It shows the calendar to accept date | <input type="date" name="doj" id="doj> | min-→ it does not allow to select the date which is < given minimum date<br>max→ it does not allow to select the date which is > given maximum date |
| type="hidden" | To send some data without displaying it on the screen, then use hidden | <td><br>    <input type="hidden" name="type" id="type" value="student"/><br>    </td> | type=student<br>value will be submitted to the server, but user will not be able to see it on the screen. |

textarea tag

| <textarea name="addr" id="addr" cols="20" rows="5">This text will appear in the textarea</textarea> | cols and rows will decide the visible area of the textarea<br>For textarea separate end tag is needed. It is not empty tag |
|---|---|

Form tag attributes

<form action="validatedata" method="post">

| method="get" | If the method to send the request is get, then data will appear in the browser url bar after ?, it is called as querystring<br>You may use this method, when the data is small, and it is not sensitive data |
|---|---|
| method="post" | If the method is post, then data will not be visible in the url bar<br>it will be transferred via request body<br>This method is useful, When the data is sensitive or the data is large |
| action=url | this attribute is set to the url, to which you want to submit form data |

Registration form

Data types in html5

| type="date" | allows to select the date | min-→ minimum date<br>max-→maximum date |
|---|---|---|
| type="number" | allows to enter only number, alphabets are not allowed, but alphabet e is allowed , used in scientific notation | min--→ minimum number allowed<br>max-→ maximum number allowed |
| type="range" | It shows you range bar, so that user can use the marker to move | min--→ minimum range value<br>max-→ maximum range value |
| type="color" | It opens color pallete to select the color | |
| type="week" | It allows to select the week and year | |
| type="month" | It allows to select the month and year | |

types tag

| Empty tag | If we never write data in between begin tag and end tag<br><br/> <input/> |
|---|---|
| Autoclosable tag | In such tags writing end tag is optional, the occurrence of same next tag, will close the previous tag<br><li> <tr> <td> |
| Semantic tags | Tags which gives information about the text written inside it<br>header, footer, section, article, aside<br>It is useful for better readability of the code, and good accessibility |

Design a form to accept 2 numbers from user, and display 2 buttons of button type

Addition, subtraction

Frameset tag

It allows to break browser window into parts, and allows to show different files in different portion of the browser

It includes 2 tags <frameset> <frame>

But drawback of frameset, it makes you write data into multiple files, and hence in html 5 it is deprecated

iframe

In new version iframe tag is used to display internal frames within same browser window

canvas

It's a tag which allows you to mark the portion in the browser, to draw or write something via javascript

media tags

1. audio ---to play any audio clip in the browser
2. video--- to play any video clip in the browser

geolocation API

Storage API