

## 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"	<ul style="list-style-type: none"><li>- it is used to submit data to the server</li><li>- The submit button has to be inside the form tag</li><li>- If user clicks on submit button then submit event occur</li><li>- If you click on this button then data will be submitted to the server, and the form will get refreshed</li></ul>	<pre>&lt;button type="submit" name="btn" id="login" value="login"&gt;click to Login &lt;/button&gt;</pre>
type="button"	<ul style="list-style-type: none"><li>- It is used to allow user to perform click action.</li><li>- If the type is button, then after clicking you will stay on the same page, and form will not get refreshed</li><li>- If you click the button then click event occur</li></ul>	<pre>&lt;button type="button" name="btn" id="login" value="calculate"&gt;calculate &lt;/button&gt;</pre>
type="reset"	<ul style="list-style-type: none"><li>- it is used to clear all fields in the form</li></ul>	<pre>&lt;button type="reset" name="btn" id="cancel" value="cancel"&gt;cancel &lt;/button&gt;</pre>

In the form you may display following controls

input tag

type="text"	It is used to display one liner text box	<pre>&lt;input type="text" name="uname" id="nm"&gt;----</pre> to display empty text box  <pre>&lt;input type="text" name="uname" id="nm" value="Rajan"&gt;---</pre> it will display a text box with Rajan types in it	<ul style="list-style-type: none"><li>- placeholder→ it display grey text as help, when you type something the grey text will go away</li><li>- required→ it makes the textbox mandatory</li><li>- pattern→ use regular expression, to determine the pattern for the value we entered</li><li>- minlength→ minimum number characters</li></ul>
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			<ul style="list-style-type: none"> <li>- maxlength→ maximum number of characters</li> <li>- size→ it adjust the size of the text box</li> </ul>
type="password"	It is used to display one liner text box, but the text typed in it is not visible	<input type="password" name="uname" id="nm">	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">  <input type="radio" name="gender" id="male" value="male" checked>--- to display selected radio button	<ul style="list-style-type: none"> <li>- value→ attribute is send 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 sected</li> <li>- checked→if the radio button is selected the checked property becomes true</li> </ul>
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  <input type="checkbox" name="skills" id="java" value="java" checked> --→ display checkbox is selected	<ul style="list-style-type: none"> <li>- 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</li> </ul> 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	<input type="email" name="fn">	

	doesnot have @ symbol, it will show error when you submit the form	id="fname">	
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 max→ it does not allow to select the date which is > given maximum date

#### textarea tag

<textarea name="addr" id="addr" cols="20" rows="5"></textarea>	cols and rows will decide the visible area of the textarea
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#### 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 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 it will be transferred via request body 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

Name :

mobile:

Address :

gender : ☐ Male ☐ Female

degree: ☐ BE ☐ BTech ☐ PHD

Skill : ☐ JAVA ☐ C++ ☐ .net ☐ Python ☐ Linux ☐ databases

city :

Profile:

#### Data types in html5

type="date"	allows to select the date	min-→ minimum date max-→maximum date
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type="number"	allows to enter only number, alphabets are not allowed, but alphabet <b>e</b> is allowed , used in scientific notation	min--→ minimum number allowed max-→ maximum number allowed
type="range"	It shows you range bar, so that user can use the marker to move	min--→ minimum range value 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   <input/>
Autoclosable tag	In such tags writing end tag is optional, the occurrence of same next tag, will close the previous tag <li> <tr> <td>
Semantic tags	Tags which gives information about the text written inside it header, footer, section, article, aside 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