

## Form tags =>

<form> is an HTML element to collect input data containing interactive controls. It provides facilities to input text, number, values, email, password, and control fields such as checkboxes, radio buttons, submit buttons, etc., or in other words, form is a container that contains input elements like text, email, number, radio buttons, checkboxes, submit buttons, etc. Forms are generally used when you want to collect data from the user. For example, a user wants to buy a bag online, so he/she has to first enter their shipping address in the address form and then add their payment details in the payment form to place an order.

<form>

<!--form elements-->

</form>

These are the following HTML <form> elements:

<label>: It defines label for <form> elements.

<input>: It is used to get input data from the form in various types such as text, password, email, etc by changing its type.

<button>: It defines a clickable button to control other elements or execute a functionality.

<select>: It is used to create a drop-down list.

<textarea>: It is used to get input long text content.

<fieldset>: It is used to draw a box around other form elements and group the related data.

<legend>: It defines a caption for fieldset elements.

<option>: It is used to define options in a drop-down list.

<optgroup>: It is used to define group-related options in a drop-down list.

```
<body>
  <form action="">
    <select name="" id="">
      <option value="">Dell laptop I9</option>
      <option value="">Dell laptop I7</option>
      <option value="">Dell laptop I5</option>
      <option value="">Dell laptop I3</option>
      <option value="">Hp laptop I9</option>
      <option value="">Hp laptop I7</option>
      <option value="">Hp laptop I5</option>
      <option value="">Hp laptop I3</option>
    </select>
  </form>
</body>
```

```

<body>
  <form action="">
    <select name="" id="">
      <optgroup label="Dell Laptop">
        <option value="">Dell laptop I9</option>
        <option value="">Dell laptop I7</option>
        <option value="">Dell laptop I5</option>
        <option value="">Dell laptop I3</option>
      </optgroup>
      <optgroup label="Hp Laptop"></optgroup>
      <option value="">Hp laptop I9</option>
      <option value="">Hp laptop I7</option>
      <option value="">Hp laptop I5</option>
      <option value="">Hp laptop I3</option>
    </optgroup>
  </select>
</form>
</body>

```

```

<body>
  <form action="">
    <select name="" id="">
      <optgroup label="Dell Laptop" disabled>
        <option value="">Dell laptop I9</option>
        <option value="">Dell laptop I7</option>
        <option value="">Dell laptop I5</option>
        <option value="">Dell laptop I3</option>
      </optgroup>
      <optgroup label="Hp Laptop"></optgroup>
      <option value="">Hp laptop I9</option>
      <option value="">Hp laptop I7</option>
      <option value="">Hp laptop I5</option>
      <option value="">Hp laptop I3</option>
    </optgroup>
  </select>
</form>
</body>

```

```

<body>
  <form action="">
    <select name="" id="" multiple>
      <optgroup label="Dell Laptop">
        <option value="">Dell laptop I9</option>
        <option value="">Dell laptop I7</option>
        <option value="">Dell laptop I5</option>
        <option value="">Dell laptop I3</option>
      </optgroup>
      <optgroup label="Hp Laptop"></optgroup>
      <option value="">Hp laptop I9</option>
      <option value="">Hp laptop I7</option>
      <option value="">Hp laptop I5</option>
      <option value="">Hp laptop I3</option>
    </optgroup>
  </select>
</form>
</body>

```

```

<body>
  <form action="">
    <select name="" id="" size="4">
      <optgroup label="Dell Laptop">
        <option value="">Dell laptop I9</option>
        <option value="">Dell laptop I7</option>
        <option value="">Dell laptop I5</option>
        <option value="">Dell laptop I3</option>
      </optgroup>
      <optgroup label="Hp Laptop"></optgroup>
      <option value="">Hp laptop I9</option>
      <option value="">Hp laptop I7</option>
      <option value="">Hp laptop I5</option>
      <option value="">Hp laptop I3</option>
    </optgroup>
  </select>
</form>
</body>

```

```

<body>
  <form action="">
    <select name="" id="">
      <optgroup label="Dell Laptop">
        <option label="I9">Dell laptop I9</option>
        <option label="I7">Dell laptop I7</option>
        <option label="I5">Dell laptop I5</option>
        <option label="I3">Dell laptop I3</option>
      </optgroup>
      <optgroup label="Hp Laptop"></optgroup>
      <option label="I9">Hp laptop I9</option>
      <option label="I7">Hp laptop I7</option>
      <option label="I5">Hp laptop I5</option>
      <option label="I3">Hp laptop I3</option>
    </optgroup>
  </select>
</form>
</body>

```

```

<body>
  <form action="">
    <select name="" id="">
      <optgroup label="Dell Laptop">
        <option label="I9">Dell laptop I9</option>
        <option label="I7">Dell laptop I7</option>
        <option label="I5">Dell laptop I5</option>
        <option label="I3">Dell laptop I3</option>
      </optgroup>
      <optgroup label="Hp Laptop"></optgroup>
      <option label="I9">Hp laptop I9</option>
      <option label="I7" selected>Hp laptop I7</option>
      <option label="I5">Hp laptop I5</option>
      <option label="I3">Hp laptop I3</option>
    </optgroup>
  </select>
</form>
</body>

```

**Input** =>

<form>

<p>

<label>Username : <input type="text" /></label>

</p>

</form>

**name** => <input type="text" name="username">

**required** => <input type="text" required>

**placeholder** => <input type="text" placeholder="Enter your username">

**autofocus** => <input type="text" autofocus>

**pattern** => <input type="text" pattern="[a-zA-Z0-9]+">

**action** => it is use for where our form save

**auto complete** => by using or turning it on then it will automatically fill the previous details.

**enctype** => In our submitted data if there is any space is available then enctype replace that spaces by + or any character but not by special character(!, @ etc)

**Password in an HTML Form** =>

```
<body>
  <form action="">
    <input type="text" name="name" id="fname">
    <label>Password : <input type="password" /></label>
    <input type="submit" name="submit" id="ss">
  </form>
</body>
</html>
```

```
<body>
  <form action="">
    <input type="text" inputmode="numeric" pattern="[0-9]+">
    <button type="submit">HELLO</button>
    <button type="reset">BACK</button>
  </form>
</body>
```

### Radio Button in an HTML Form =>

```
<body>
  <form action="">
    <label>Male<input type="radio"
                        name="gender"
                        value="male" />
    </label>
    <label>Female<input type="radio"
                        name="gender"
                        value="female" />
    </label>
  </form>
</body>
```

### Checkbox in an HTML Form =>

```
<body>
  <form action="">
    <ul style="list-style-type:none;">
      <li><input type="checkbox"
                  name="language"
                  value="hindi" />
          Hindi
      </li>
      <li><input type="checkbox"
                  name="language"
                  value="english" />
          English
      </li>
    </ul>
  </form>
</body>
```

### Submit button in an HTML Form =>

```
<body>
  <form action="">
    <ul style="list-style-type:none;">
      <li><input type="checkbox"
                  name="language"
                  value="hindi" />
          Hindi
      </li>
      <li><input type="checkbox"
                  name="language"
                  value="english" />
          English
      </li>
      <button type="submit">submit</button>
    </ul>
  </form>
</body>
```

TextArea in an HTML Form =>

```
<body>
  <form action="">
    <textarea name="welcomeMessage" rows="8"
      cols="40">
      Lorem ipsum dolor sit amet consectetur
      adipisicing elit. Iste quibusdam quae veniam
      magni quisquam delectus minima incidunt quod
      voluptatum inventore.
    </textarea>
  </form>
</body>
```

Form tags =>

action

<form action="#" method="get" target="\_self">

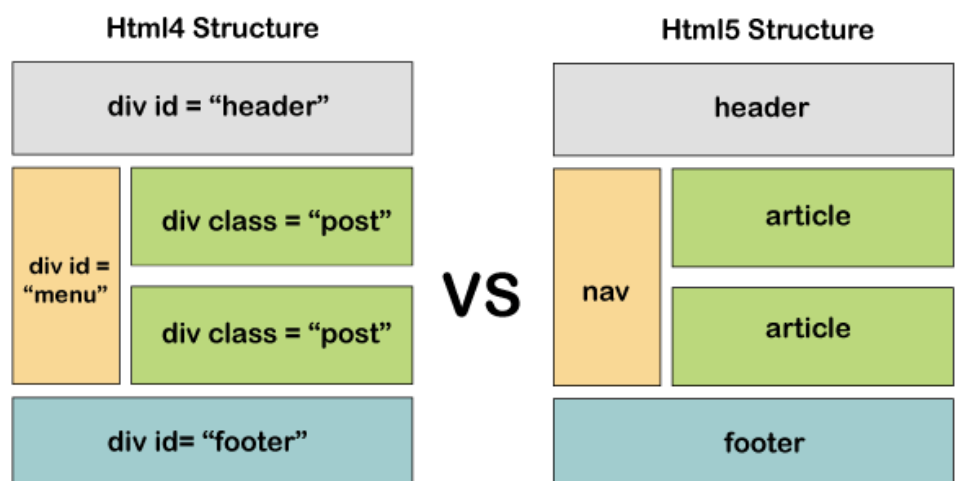
method

<form method="get|post">

enctype

```
<body>
  <form action="#" method="get" target="_self" enctype>
    <label for="">Name: <input type="text" name=""
      id=""></label><br> <br>
    <label for="">Password: <input type="password"
      name="" id=""></label>
    <input type="submit" name="" id="">
  </form>
</body>
```

Structure of html4 and html 5 =>



HTML4	HTML5
It is the fourth iteration of HTML.	It is the fifth iteration of HTML – an update over HTML4.
Lengthy Doctype declaration: <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">	Simple Doctype declaration: <!DOCTYPE html>
These tags are not available in HTML4.	Comes with new HTML tags, including <audio>, <video>, <header>, <footer>, <canvas>, <article>, and more.
Multimedia supporting tags are not available.	Multimedia supporting tags are available.
Difficult for developers to handle inaccurate syntax errors.	It can handle inaccurate syntax errors.
To store important data on the client-side, the browser's cache is used.	HTML5 uses the web SQL database, web storage, and application cache to store offline data that can be accessed through HTML5's <a href="#">JavaScript</a> interface.
<div> tag is used for separating two parts.	Does not require <div> tag.
Adding a figure with a caption to a document is not possible.	Adding a figure with a caption to a document is semantically possible.