HTML Forms use the <form> tag to collect user input through various interactive controls. These controls range from text fields, numeric inputs, and email fields to password fields, checkboxes, radio buttons, and submit buttons.

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```
<form>
      <!--form elements-->
</form>
```

Html form tags and its descrption.

<label>   It defines labels 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 related data.

<legend>   It defines a caption for fieldset elements

<datalist>   It is used to specify pre-defined list options for input controls.

<output>   It displays the output of performed calculations.

<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.

Commonly Used Input Types in HTML Forms

In HTML forms, various input types are used to collect different types of data from users. Here are some commonly used input types:

Input Type   Description

<input type="text"> Defines a one-line text input field

<input type="password"> Defines a password field

<input type="submit"> Defines a submit button

<input type="reset">Defines a reset button

<input type="radio">Defines a radio button
<input type="email">Validates that the input is a valid email address.
<input type="number">Allows the user to enter a number. You can specify min, max, and step attributes for range.
<input type="checkbox">Used for checkboxes where the user can select multiple options.
<input type="date">Allows the user to select a date from a calendar.
<input type="time">Allows the user to select a time.
<input type="file">Allows the user to select a file to upload.

Example 1: Basic HTML Forms

Example: This HTML form collects user personal information such as username and password with a button to submit the form.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Html Forms</title>
</head>
<body>
<h2>HTML Forms</h2>
 <form>
      <label for="username">Username:</label><br>
      <input type="text" id="username" name="username"><br><br>
      <label for="password">Password:</label><br>
      <input type="password" id="password" name="password"><br><br>
      <input type="submit" value="Submit">
  </form>
</body>
</html>
```

Advance form example with required attribute:-

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

<head>
    <title>HTML Form</title>
    </head>

<body>
    <form align="center">
      <fieldset>
         <legend>User Personal Information</legend>
         <label for="name">Enter your full name:</label>
         <input type="text" id="name" name="name" required /><br><br>
```

```html
        <label for="email">Enter your email:</label>
        <input type="email" id="email" name="email" required /><br><br>
        <label for="password">Enter your password:</label>
        <input type="password" id="password" name="pass" required /><br><br>
        <label for="confirmPassword">Confirm your password:</label>
        <input type="password" id="confirmPassword" name="confirmPass" required
/><br><br>
        <label>Enter your gender:</label><br>
        <div>
            <input type="radio" name="gender" value="male" id="male" required />
            <label for="male">Male</label>
            <input type="radio" name="gender" value="female" id="female" />
            <label for="female">Female</label>
            <input type="radio" name="gender" value="others" id="others" />
            <label for="others">Others</label>
        </div>
        <label for="dob">Enter your Date of Birth:</label>
        <input type="date" id="dob" name="dob" required /><br><br>
        <label for="address">Enter your Address:</label>
        <textarea id="address" name="address" required></textarea><br><br>
        <input type="submit" value="Submit" />
    </fieldset>
  </form>
</body>

</html>
```

PENDING PROJECT DO IT…………………………