HTML Form and Form Controls:

* Form is used to send the set of data from the fields in a one binding

Attributes:

* + action= “url\_resourse” : this attribute is used to define the resource path to which the data should be sent
  + methods= “” This attribute is used to define the method by which method the data should be sent. http methods are: get(default), post, put, delete, patch

Form elements: <form></form> form tag can be considered as a parent or container element where it defines and creates the html form using the child elements of it.

Form Attributes:

* action= “file\_path” - this attribute defines the path to which the form data to be sent
* target= “\_blank” / “\_child” – displays the form data in new tab

“\_parent”/ “\_self” – displays the form data in same tab

* method= “get” / “post” / “delete” / “put” / “patch” – this attribute defines by which which http protocol should the form data should be sent to server

get: used to send unsensitive data since the form data is visible in url, this data is limited because it should be displayed in url, it is useful for the viewers when they want to book mark the result

post: used to send sensitive data, no size limit, ie. Can be sent large data, and cannot be book marked.

* autocomplete= “on” (default) / “off” its functionality is to autocomplete the form fields with users previous entered data
* novalidate: it is boolean attribute and its functionality is to send the form data without validation

Form Elements:

**Input tag**: <input> </input> this tag defines an element based on the value of type attribute, enabling the user to enter the data in different ways:

Attributes:

* type: this defines which type of input should be created
* size= “100” (this shows the 100 characters at a time but takes 256 any way)
* maxlength= “10” – it limits to 10 characters (i.e. only takes 10 characters)
* placeholder= “username” – it shows the username message on the field
* value= “Ram@gmail.com” -it sets default value for that particular field and this comes with the mentioned value in the field
* required – this is an attribute which does not need a value and this defines the field as a required such that it should be entered for sure
* hidden – this attribute hides the field completely.

**label tag**: <label></label> this tag is basic tag which displayed for the user reading experience better to provide input

**select tag**: <select></select> this tag is a container tag or parent tag to create a drop down list and the <option></option> tag is child tag used to create multiple option in a drop down menu

attributes:

size= “2” this attributes defines how many option should be shown in drop down

multiple: it is a boolean attribute used to enable the multiple selection in the drop down

option tag: attributes:

value: it defines the value for the option

selected: this is a boolean attribute it selects the option in drop down

**textarea tag:** <textarea></textarea> it is used to create textarea element which enables to input text in multiple lines

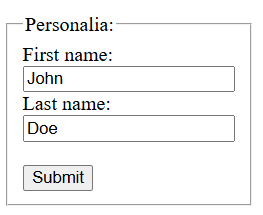
attributes: rows= “” it defines the noof lines to be visibled

columns = “” it defines the widthe of text area

**button tag:** <button></button> this tag creates a button

attributes: type: “button” / “submit” / “reset”

Note: you can create the functionality of submiting the form data in two ways using input tag and button tag

**fieldset tag:** <fieldset></fieldset> it is a parent tag or container tag used to create a group to a related data

legend tag: <legend></legend> creates the caption for the group

**datalist tag:** <datalist></datalist> is a parent tag and creating option elements inside this tag can be accessed by the input tag, thorough calling this element using id

**output tag:** <output></output>this tag represents the result of a calculation or a user action within a web page.

Input elements:

1. <input type="text">
2. <input type="password">
3. <input type="submit " value= “login”>: the value attribute defines the name in submit button
4. <input type="reset" > : if the value attribute is given to the input and clicking reset button, gets you the reset value in text field
5. <input type="radio"> : the name of input radios should be given the same for making only one to be selected
6. <input type="checkbox">
7. <input type="color">
8. <input type="date">
9. <input type="datetime-local"> : creates a field to input both date and time
10. <input type="email">: creates a field to input
11. <input type="image" src=“” alt=“” >creates an image as a submit button
12. <input type="file">: creates a field to input file
13. <input type="hidden" id="custId" name="custId" value="3487"> : this hidden type input file such that you can send data through form with out user knowing
14. <input type="month”> : takes both month and year
15. <input type="number">: creates to input only number
16. <input type="range">: the default min and max range is 0 and 100 you can change them using min and max attributes
17. <input type="search" >: it works like text field but the difference is in semantics, and browser can involve in little changes in search field design but not for text fields
18. <input type="tel"> :works same as text field with out format attribute but the change in semantics and browser and os getting access
19. <input type="time">: creates a field to input time
20. <input type="url">: creates a field to input urls
21. <input type= “week”: creates a field to select a particular week in any month and year
22. <input type="datetime-local"> : creates input with date and time

Input Attributes:

1. value = “” : defines initial value for input field
2. placeholder= “” : it defines the hint message over the input field.
3. size = “” : to define the visible width for a field
4. maxlength = “” : to define the maximum no of characters to be entered
5. min= “” or max= “” : to define the minimum value to be entered or maximum value entered in terms value not the length
6. step= “” : it updates the functionality for the input field to take the step wise value. Example: step= “3” , values would be -3,0,3,6,9
7. height and width = “” :these attributes sets the width and height of input field
8. pattern= “” : to define the regular expression such that input value should be matching the expression
9. list= “” takes id of a datalist as input such that it adds the predefined options in the datalist to the input field
10. autocomplete= “on” / “off” : it allows the browser to predict the value by the previous data typed.
11. form= “” when a field to be mentioned outside the form element and wanted to send the data with the that form element we use form attribute and provide the name of the form element as the value to the form attribute in the input field
12. formaction = “’ this attribute can be given to only input submit field or button and this makes the button functionality to direct the data to the path mentioned as value to the attribute
13. formmethod = “” only form input submit, inputimage, button to override the method functionality through this submit
14. formtarget = “” only for input submit, input image, button to override the target functionality through new submit
15. formnovalidate = “” only for input submit, input image, button to override the functionality through this submit
16. readonly : it is a boolean attribute change the functionality of a field only to be read but not edit
17. disabled : it is a boolean attribute to change the field to be disabled such that it can not be changed and it visibles like it is disabled
18. required: it defines the input field as mandatory and user must enter the value for sure
19. autofocus : it is a boolean attribute where it enables a functionality to input field to be focused when the page loads only works for the one field
20. multiple: to enable the functionality of selecting multiple values for a input