==============================

UNIT-III Form and Event HandLing

==============================

*Form

Syntax:

      `<form name=""action=" "method="">`

          `//form elements.`

      `</form>`

where:

      Name =>Specify unique name for identification purpose

      Action=>It is used to specify an address(URL)where to submit the form

      Method=>It is used to specify HTTP method when submitting from data to server

          GET->by default form method is GET.the from data is appended to the URL when submitted

          POST->the from data is note appended to the URL it will send as a part of body.

    Target=>It is used to specify target of the address in the action attributes

            _blank ->the Target URL will open in new blank window

            _self ->the target URL will open in same window.

            _parent->The target URL will open in parent frame set.

            _top ->the target URL Will open in full Body of Window.

***Form Methods:

1)reset()-This Method of form object and it is used to reset a from

2)submit()-this method of from object and it is used to submit a form.

getElementById()

getElementByTagName()

Example 1:

```
<html>
<head>
    <script language="javascript" type="text/javascript">
        function pass()
        {
            alert("From submitted Successfully!!!");
        }
    </script
</head>
<body>
    <form onsubmit="pass()">
        Name:<input type="text" value="text"> <br>
          <input type="submit" value="submit">
    </form>
</body>
</html
```

Example 2:

```html
<html>
<head>
    <script language="javascript" type="text/javascript">
        function clean()
        {
            alert("From submitted Successfully!!!");
        }
    </script
</head>
<body>
    <form onreset="clean()">
        Name:<input type="text" value="VJTech Academy"> <br>
        <input type="reset" value="Reset">
    </form>
</body>
</html
```

****

Button Elements: <input type="" name="" value="">

===============

->In HTML we can create Button by using three different ways.

1)submit:-submit button is used to send from data.

Example:

```
<input type="submit" name="b1" value="Send">
```

2)Reset:-We use Reset Button to reseting the From data

Example:

```
<input type="reset" name="b1" value="Clear">
```

3)Button:-It Will create push button,we can use it for the custom functionality where even

will occur when button is Clicked.

Example:

```
<input type="Button" name="b1" value="Click">
```

Attributes:

type =>Submit,Reset,Button

Value=>Value in the text Displayed on the button.

Name =>Unique name to identify individual button.

```
<html>
<body>
    <form name="myform">
    <input type="submit" name="b1" value="Send">
    <input type="reset"  name="b2" value="Clear">
    <input type="Button" name="b3" value="Click">
    </form>
</body>
```

</html>

****

Text Element:

=============

-By using this elements we can create textfield.

-This is single line edit control where user can provide input.

-Attributes:

> type =>text
>
> name =>name of textbox
>
> id   =>unique identification number.
>
> size =>Input field with is specified by number of characters.
>
> maxlength=>Maxmimum no of characters allowed in the input

field.

> value   =>Initial String Which display in text box.

Example:

```
<hmtl>
    <body>
        <form name="myform">
        Enter Your Name:<input type="text" name="tf1" size="20"
        maxlength="20">
        Enter Mobile No:<input type="text" name="tf2" size="20"
        maxlength="10">
        Enter Email ID:<input type="text"  name="tf3" size="20"
         value="Email ID">
        <input type="Submit" name="b1" value="Submit">
```

        </body>

</html>

****

TextArea Elements:

==================

-In this Elements we can enter multiple lines as a input.

-This is multiple edit control.

-Attributes:

        name =>field name

        cols =>Specify the number of visible column in the textarea.

        rows =>Specify the number of visible rows in the textarea.

        wrap hard =>the input text is wrapped with new line.

                soft =>the input text is wrapped without new line.

                off =>input text is not wrapped.

Example:

        <textarea name="tf1" cols="50" rows="10" wrap="hard">Enter Comments Here</textarea>

<html>

<body>

        <form name="myform">

          `<textarea name="tf1" cols="50" rows="10" wrap="hard">Enter Comments Here </textarea>`

       `</form>`

`</body>`

`</html>`

****

CheckBox Element:

=================

-CheckBox is a Collection of Rectangular box with label.

-It has two states(ON or OFF).

-we can use Checkbox in multiple choice Questions.

-Attributes:

      type =>"Checkbox" It will create Checkbox on form.

      name =>field name

      id =>unique identification number.

      value=>This Value is Submitted to the server when selected.

      Checked=>Checked.

Example:

`<html>`

`<body>`

   `<form name="myform">`

    `<input type="Checkbox" name="c1" value="C Lang">c Lang`

    `<input type="Checkbox" name="c2" value="C++ Lang">c++ Lang`

```
        <input type="Checkbox" name="c3" value="JavaScript Lang"
checked>JavaScript Lang
```

```
        </form>
```

```
</body>
```

```
</html>
```

****

Radio Button Elements:

=====================

-This will create Radio Button with accociated String label.

-It has two states(ON or OFF).

-If we want to select one option among give multiple options,we can use Radio Button.

-Attributes:

        type =>"radio" It will create Checkbox on form.

        name =>field name

        id   =>unique identification number.

        value=>This Value is Submitted to the server when selected.

        Checked=>Checked.

Example:

```
<html>
```

```
<body>
```

```
    <form name="myform">
```

```
     <input type="radio" name="c1" value="C Lang">c Lang
```

```
<input type="radio" name="c1" value="C++ Lang">c++ Lang

<input type="radio" name="c1" value="JavaScript Lang"
checked>JavaScript Langs

</form>

</body>

</html>
```

****

Select Element:

===============

-select Element Define Selectable List and OPTION elements is used to define List of item.

-The option element placed in side the SELECT Element.

-SELECT Element Attributes:

name=field name

size=specify the number of items Visible in the list.

multiple=multiple->multiple items Selected at a time.

-OPTION Element Attributes:

value=The value which submitted to the server when selected.

Selected=selected->Item is selected in the initial State.

Example:

```
<html>

<body>

<form name="myform">

select Your Favourite color:
```

```html
            <select name"mycolor" size="3" multiple>

            <option value="red">RED</option>

            <option value="green">GREEN</option>

            <option value="blue">BLUE</option>

            <option value="white">WHITE</option>

            <option value="yellow">YELLOW</option>

        </select>

    </form>

</body>

</html>
```

****

All From Element Practice Program:

===============================

```html
<html>

<body>

    <form name="myform">

        ***********VJTECH SOFTWARE PVT LTD***********<br><br>

        Enter Your Name:<input type="text" name="tf1"
        size="20"><br><br>

        Enter Mobile No:<input type="text" name="tf2" size="20"
        maxlength="10"><br><br>

        Select Gender:<input type="radio" name="r1">Male

        <input type="radio" name="r1">Female<br><br>
```

Favourite Programming Languages:`<input type="checkbox" name="c1">`C Lang

`<input type="checkbox" name="c2">`C++ Lang

`<input type="checkbox" name="c3">`Java Lang`<br><br>`

`<select name="college" size="3"`

       `<option value="gpa">`GPA`</option>`

       `<option value="gpp">`GPP`</option>`

       `<option value="gpn">`GPN`</option>`

       `<option value="gpo">`GPO`</option>`

       `<option value="gpt">`GPT`</option>`

`</select><br><br><br>`

`<input type="Button" name="b1" value="Submit">`

`</form>`

`</body>`

`</html>`

****

Form Events:

============

***Event Attributes:

onload

onunload

onclick

ondbllick

onmouseup

onmousemove

onmouseout

onfocus

onblur

onkeypress

onkeydown

onkeyup

onsubmit

onreset

onselect

onchange

Example1:

//Event Attribute:onfocus()

<html

```
<head>

      <script language="javascript" type="text/javascript">

                  function display()

                  {

                    alert("Use capital letters only!!!");

                  }

      </script>

</head>

<body>

      <form name="myform">

                Enter Name:<input type="text" name="tf1" onfocus="display()">

      </form>

</body>

</html>
```

Example2:

```
//Event Attribute:onfocus()

<html

<head>

      <script language="javascript" type="text/javascript">

                  function display()

                  {

                    alert("Use capital letters only!!!");
```

```
            }

      </script>

</head>

<body>

      <form name="myform">

            Enter Name:<input type="text" name="tf1" onfocus="display()">

      </form>

</body>

</html>
```

Example 3:

```
//Event Attribute:onselect()

<html

<head>

      <script language="javascript" type="text/javascript">

                  function display()

                  {

                    alert("Text selecteds!!!");

                  }

      </script>

</head>

<body>

      <form name="myform">
```

Enter Name:<input type="text" name="tf1" onselect="display()">

</form>

</body>

</html>

Example4:

//Event Attribute:onchange()

<html

<head>

```
<script language="javascript" type="text/javascript">
            function display()
            {
               alert("Text got changed!!!");
            }
</script>
```

</head>

<body>

<form name="myform">

Enter Name:<input type="text" name="tf1"value="VJTech"
onchange="display()">

</form>

</body>

</html>

Example5:

//Event Attribute:onload & onunload()

```html
<html
<head>
    <script language="javascript" type="text/javascript">
            function display_load()
            {
              alert("Body Loaded Successfully!!!");
            }
            function display_unload()
            {
              alert("Unloading...!!!");
            }
    </script>
</head>
<body onload="display_load()" onunload="display_unload()">
            This Program Implements onload and onunload event attributes.
</body>
</html>
```

Mouse Event:

==========

onclick

ondbllick

onmousedown

onmouseup

onmousemove

onmouseover

onmouseout

Example1:

```
//Mouse Event:onclick & ondblclick()

<html>

<head>

    <script language="javascript" type="text/javascript">

                function display1()

                {

                        alert("Single Click of Mouse Button");

                }

                function display2()

                {

                        alert("Double Click of Mouse Button");

                }
```

```
        </script>

</head>

        <form name="myform">

                <input type="button" name="b1" value="Single Click"
                onclick="display1()">

                <input type="button" name="b2" value="Double Click"
                ondblclick="display2()">

        </form>

</html>
```

Example2:

```
//Mouse Event:onmouseover & onmouseout()

<html>

<head>

        <script language="javascript" type="text/javascript">

                function display1()

                {

                        alert("Mouse cursor come over the button element");

                }

                function display2()

                {

                        alert("Mouse cursor goes out from the button
                        element");

                }
```

```
        </script>

</head>

        <form name="myform">

                <input type="button" name="b1" value="Submit"
                onmouseover="display1()"onmouseout="display2()">

        </form>

</html>
```

Example3:

//Mouse Event:onmousedown & onmouseup()

```
<html>

<head>

        <script language="javascript" type="text/javascript">

                        function display1()

                        {

                                alert("Mouse Button Down!!!");

                        }

                        function display2()

                        {

                                alert("Mouse Button up!!!");

                        }

        </script>

</head>

        <form name="myform">
```

```
        <input type="button" name="b1" value="Submit"
        onmousedown="display1()"onmouseup="display2()">

    </form>

</html>
```

Example4:

```
//Mouse Event:onmousemove()

<html>

<head>

    <script language="javascript" type="text/javascript">

            function display()

            {

                    alert("Mouse Moves...!!!");

            }

    </script>

</head>

<body>

    <form name="myform">

            <textarea name="tf1" rows="10" cols="10"
            onmousemove="display()">

             Enter Comment Here.

            </textarea>

    </form>

</body>
```

</html>

Key Element:

============

onkeypress

onkeydown

onkeyup

Example1:

//Key Element::onkeydown(),onkeyup(),onkeypress().

<html>

<head>

```
<script language="javascript" type="text/javascript">

            function display1()

            {

                    document.myform.b1.value="Key Down!!!";

            }

            function display2()

            {

                    document.myform.b1.value="Key Up!!!";

            }

            function display3()

            {

                    document.myform.b2.value="Key Press!!!";
```

```
                    }

        </script>

</head>

<body>

        <form name="myform">

                <input type="text" name="tf1" value="" onkeydown="display1()"
                onkeyup="display2()" onkeypress="display3()">

                <input type="button" name="b1" value="Press Key">

                <input type="button" name="b2" value="Key">

        </form>

</body>

</html>
```

Form Objects & Elements:

========================

HTML-Page->Window as First element.

-window contain HTML document which is known as document object.

=>window object=>Document Objects=>Form Object=>Form Control Elements.

-one document can have multiple forms and they are arranged in array.

-we can access individual for using index or name.

-Example:

window.document.forms[2];   =>you are referring to 3rd form.

window.document.forms.vjtech=>you are referring to vjtech form.

-one form can have multiple elements and all are arranged in array.

-we can access individual form element by using array.

-Example:

-window.document.forms.vjtech.elements[3];

-we can calculate length of form. document.forms.length & document.forms.elements.length

Example1:

```
//Display Name

<html>

<head>

    <script language="javascript" type="text/javascript">

        function display()

        {

                alert("Welcome "+document.forms.vjtech.fname.value);

        }

    </script>

</head>

<body>

    <form name="vjtech">

        Enter Your Name:<input type="text" name="fname">

        <input type="button" name="b1" value="Submit"
        onclick="display()">

    </form>

</body>
```

</html>

Example2:

//Display Biodata:

```html
<html>
<head>
	<script language="javascript" type="text/javascript">
		function display()
		{
			alert("My Info: "+document.forms.vjtech.fname.value+document.forms.
			vjtech.cname.value+
			document.forms.vjtech.bname.value);
		}
	</script>
</head>
<body>
	<form name="vjtech">
		Enter Your Name:<input type="text" name="fname"><br><br>
		Enter College Name:<input type="text" name="cname"><br><br>
		Enter Your Branch:<input type="text" name="bname"><br><br>
		<input type="button" name="b1" value="Submit" onclick="display()">
	</form>
```

```
</body>

</html>
```

Example3:

```
//Display Biodata 1:

<html>

<head>

    <script language="javascript" type="text/javascript">

        function display()

        {

            alert("My Info:
        "+document.forms.vjtech.elements[0].value+document.forms.

        vjtech.elements[1].value+document.forms.vjtech.elements

        [2].value);

        }

    </script>

</head>

<body>

    <form name="vjtech">

        Enter Your Name:<input type="text" name="fname"><br><br>

        Enter College Name:<input type="text" name="cname"><br><br>

        Enter Your Branch:<input type="text" name="bname"><br><br>

        <input type="button" name="b1" value="Submit"
onclick="display()">
```

```
        </form>

</body>

</html>
```

Example4:

//getElementById Method:

```html
<html>

<head>

	<script language="javascript" type="text/javascript">

		function display()

		{

			alert("Welcome "+document.getElementById("tf1").value);

		}

	</script>

</head>

<body>

	<form name="vjtech">

		Enter Your Name:<input type="text" id="tf1"><br>

		<input type="button" name="b1" value="Submit"
onclick="display()">

	</form>

</body>

</html>
```

Example5:

//InnerHTML Method...

```
<html>

<head>

    <script language="javascript" type="text/javascript">

        function display()

        {

                document.getElementById("t1").innerHTML="Good
                Morning Friend!!!";

        }

    </script>

</head>

<body>

    <form name="vjtech">

        <h4 id="t1">VJTech Academy</h4>

        <input type="button" name="b1" value="Change Text"
        onclick="display()">

    </form>

</body>

</html>
```

//Changing Attributes Dyanamically 1:

```
<html>

<head>
```

```
<script language="javascript" type="text/javascript">

        function display()

        {

                document.forms.vjtech.tf2.value="Welcome
                "+document.forms.vjtech.tf1.value;

        }

</script>

</head>

<body>

    <form name="vjtech">

            Enter First Name:<input type="text" name="tf1"
                    onchange="display()"><br><br>

            Message:<input type="text" name="tf2"><br>

    </form>

</body>

</html>
```

//Changing Attributes Dyanamically 2:

```
<html>

<head>

    <script language="javascript" type="text/javascript">

            function display1()

            {

                    document.forms.vjtech.tf1.style.color="green";
```

```
                    document.forms.vjtech.tf1.style.backgroundColor="yellow"

            }

            function display2()

            {

                    document.forms.vjtech.tf2.style.color="red";

                    document.forms.vjtech.tf2.style.backgroundColor="pink"

            }

        </script>

</head>

<body>

        <form name="vjtech">

                College Name:<input type="text" name="tf1"
                onchange="display1()"><br><br>

                University Name:<input type="text" name="tf2"
                onchange="display2()">

        </form>

</body>

</html>
```

//Evaluting CheckBox Selection...

Example1:

```
<html>

<head>

        <script language="javascript" type="text/javascript">
```

```javascript
function display()

{

        if(document.forms.vjtech.c1.checked==true)

        {

                alert("You have selected C Language!!!");

        }

        if(document.forms.vjtech.c2.checked==true)

        {

                alert("You have selected c++ Language!!!");

        }

    if(document.forms.vjtech.c3.checked==true)

        {

                alert("You have selected JavaScript Language!!!");

        }

      if(document.forms.vjtech.c4.checked==true)

        {

                alert("You have selected Python Language!!!");

        }

      if(document.forms.vjtech.c5.checked==true)

        {

                alert("You have selected Java Language!!!");

        }

    }
```

```
        </script>

</head>

<body>

    <form name="vjtech">

            <input type="checkbox" name="c1" value="C Lang">c
            Language<br>

            <input type="checkbox" name="c2" value="C++ Lang">c++
            Language<br>

            <input type="checkbox" name="c3" value="JavaScript
            Lang">JavaScript Language<br>

            <input type="checkbox" name="c4" value="Python Lang">python
            Language<br>

            <input type="checkbox" name="c5" value="Java Lang">Java
            Language<br><br>

            <input type="button" name="b1" value="Submit"
            onclick="display()">

    </form>

</body>

</html>
```

//Evaluting CheckBox Selection...

Example2:

```
<html>

<head>

    <script language="javascript" type="text/javascript">
```

```
function display()
{
        var i=0;

        while(i<document.forms.vjtech.elements.length)
        {
                if(document.forms.vjtech.elements[i].checked==true)
                {
                        alert("You have
                selected"+document.forms.vjtech.elements[i].value);
                }
                i=i+1;
        }
}
</script>
</head>
<body>
    <form name="vjtech">
        <input type="checkbox" name="c1" value="C Lang">c
        Language<br>

        <input type="checkbox" name="c2" value="C++ Lang">c++
        Language<br>

        <input type="checkbox" name="c3" value="JavaScript
        Lang">JavaScript Language<br>

        <input type="checkbox" name="c4" value="Python Lang">python
        Language<br>
```

```
            <input type="checkbox" name="c5" value="Java Lang">Java
            Language<br><br>

            <input type="button" name="b1" value="Submit"
            onclick="display()">

      </form>

</body>

</html>
```

//Hideen From Elements:

```
<html>

<head>

      <script language="javascript" type="text/javascript">

            function display()

            {

                  if(document.forms.vjtech.tf1.value.length>0 &&
                  document.forms.vjtech.tf2.value.length>0)

                  {
                        document.forms.vjtech.tf3.value=document.

                  forms.vjtech.tf1.value+document.forms.vjtech.tf2.value;

                        alert(document.forms.vjtech.tf3.value);

                  }

            }

      </script>
```

```
</head>
```

```
<body>

        <form name="vjtech">

          Enter Year:<input type="text" name="tf1"><br><br>

          Enter Branch:<input type="text" name="tf2"><br><br>

          Course Code:<input type="hidden" name="tf3"><br><br>

          <input type="button" name="b1" value="Submit" onclick="display()">

        </form>

</body>

</html>
```

//Disabling From Element:

```
<html>

<head>

        <script language="javascript" type="text/javascript">

                function enable()

                {

                        document.forms.vjtech.tf1.disabled=false;

                }

                function disable()

                {

                        document.forms.vjtech.tf1.disabled=true;

                }

        </script>
```

```
</head>

<body>

     <form name="vjtech">

       Enter Your Branch:<input type="text" name="tf1"><br><br>

       <input type="button" name="b1" value="Disable" onclick="disable()">

       <input type="button" name="b2" value="Enable" onclick="enable()">

     </form>

</body>

</html>
```

//Read Only Method:

```
<html>

<head>

     <script language="javascript" type="text/javascript">

           function readonly()

           {

                   document.forms.vjtech.tf1.readOnly=true;

           }

           function display()

           {

                   document.forms.vjtech.tf1.readOnly=false;

           }
```

```
        </script>


</head>

<body>

        <form name="vjtech">

            Enter Your Branch:<input type="text" name="tf1"><br><br>

            <input type="button" name="b1" value="Read Only"
            onclick="readonly()">

            <input type="button" name="b2" value="Write" onclick="display()">

        </form>

</body>

</html>
```

VJTech Academy…