JAVASCRIPT

- ➢ JavaScript is a client side scripting language.
- ➢ extension of JavaScript file is .js
- ➢ JavaScript is a case sensitive scripting language.
- ➢ JavaScript can be written inside html page.
- ➢ JavaScript and Java are completely different languages, both in concept and design.
- ➢ JavaScript code will be written inside <script></script> tag in a html page.

How to include external JavaScript code in a html page.

<html>

<head>

   <title>demo</title>

<script src="demo.js" type="text/javascript"></script>

</head>

<body>

</body>

</html>

Q: write a JavaScript code such that when mouse is over a moving text then it stop moving and when mouse is out from the moving element then it is start moving again.

CODE:

<html>

<head>

   <title>demo</title>

</head>

<body>

<marquee onmouseover="this.stop();" onmouseout="this.start()">nielit patna center</marquee>

</body>

</html>

onmouseover: This javascript event will be executed when mouse is over an html element.

onmouseout: this javascript event will be executed when mouse is going out of an html element.

Function in javascript:

A function is a block of code that performs a specific task.

A function is declared using the function keyword.

Syntax:

function function_name()

{

 //block of code to be executed.

}

Example:

<html>

<head>

   <title>demo</title>

<script>

```
        function fun1()

        {

                alert("nielit");

        }
</script>
</head>
<body>
<input type="button" value="click here" onclick="fun1()" />
</body>
</html>
```

The return statement can be used to return the value to a function call.

The return statement denotes that the function has ended. Any code after return is not executed.

Q:write a javascript code to add two number using javascript and display the result using alert box.

```
<html>
<head>
    <title>demo</title>
<script>
    function fun1()

    {

     n1=parseInt(document.getElementById("box1").value);

      n2=parseInt(document.getElementById("box2").value);

     //alert("value of n1="+n1+"value of n2="+n2);
```

```
    sum=n1+n2;
    alert("result="+sum );


    }


</script>
</head>
<body>
enter 1st num<input type="text" id="box1" />
enter 2nd num<input type="text" id="box2" />
<input type="button" value="click here" onclick="fun1()" />
</body>
</html>
```

Q:write a javascript code to add two number using javascript and display the result into text box.

```
<html>
<head>
    <title>demo</title>
<script>
    function fun1()
    {
     n1=parseInt(document.getElementById("box1").value);
      n2=parseInt(document.getElementById("box2").value);
      //alert("value of n1="+n1+"value of n2="+n2);
```

```
      sum=n1+n2;
      document.getElementById("box3").value=sum;


      }


</script>
</head>
<body>
enter 1st num<input type="text" id="box1" />
enter 2nd num<input type="text" id="box2" />
<input type="button" value="click here" onclick="fun1()" /><br />
result<input type="text" id="box3" />
</body>
</html>
```

Q:write a javascript code to add two number using javascript and display the result inside H1 tag.

```
<html>
<head>
    <title>demo</title>
<script>
    function fun1()
    {
     n1=parseInt(document.getElementById("box1").value);
      n2=parseInt(document.getElementById("box2").value);
```

```
        //alert("value of n1="+n1+"value of n2="+n2);

    sum=n1+n2;

    document.getElementById("result").innerHTML="result  ="+sum;


    }


</script>
</head>
<body>
enter 1st num<input type="text" id="box1" />
enter 2nd num<input type="text" id="box2" />
<input type="button" value="click here" onclick="fun1()" /><br />

<h1 id="result"></h1>
</body>
</html>
```

Form validation in javascript:

```
<html>
<head>
    <title>demo</title>
<script>
    function fun1()
    {
```

```javascript
n1=document.getElementById("box1").value;
n2=document.getElementById("box2").value;
n1_final=n1.trim();
n2_final=n2.trim();
if(n1_final=="")
{
    alert("name field cannot be left blank");
        return false;
}
else if(n1_final.length<2)
{
 alert("name is too small, enter valid name");
        return false;
}
else if(n1_final.length>20)
{
 alert("name is too big, enter valid name");
        return false;
}
else if(n2_final=="")
{
alert("mobile number can not left blank");
        return false;
}
else if(n2_final.length!=10)
```

```
        {

                alert("enter 10 digit valid mobile number");

                 return false;



        }



}



</script>
</head>
<body>
<form method="post" action="abcd.html">
enter name<input type="text" id="box1" /><br>
enter mobile<input type="text" id="box2" maxlength="10"/>
<input type="submit" value="click here" onclick="return fun1()" />        <br />
</form>
<h1 id="result"></h1>
</body>
</html>
```

Comparison operator or relational operator in javascript.

== Equal to

!= Not equal to

< Less than

> greater than

<= Less than or equal to

>= Greater than or equal to

CONFIRM BOX IN JAVASCRIPT:

The confirm() method displays a dialog box with a specified message, along with an OK and a Cancel button.

syntax:confirm(message);

This method return true if user click on ok button, and return false if user click on cancel button.

Example:

<html>

<head>

   <title>demo</title>

<script>

   function fun1()

   {

    n1=document.getElementById("box1").value;

     n2=document.getElementById("box2").value;

   res=confirm("are you sure");

    if(res==true)

```
            {
                  return true;
            }
      else
      {
            return false;
      }


      }
```

</script>

</head>

<body>

<form method="post" action="abcd.html">

enter name<input type="text" id="box1" />

enter mobile<input type="text" id="box2" maxlength="10"/>

<input type="submit" value="click here" onclick="return fun1()" />

</form>

</body>

</html>

isNaN(): This function is used to check whether a given value is number or not.

This function return true if value is not a number, and return false if value is a number.

Example:

```html
<html>
<head>
    <title>demo</title>
<script>
    function fun1()
    {
     n1=document.getElementById("box1").value;


       if(isNaN(n1)==true)
       {


         alert("this text box contain character.");
              return false;
       }
else
{
    alert("this text box contain  number only.");
             return false;


}


       }


</script>
```

```html
</head>
<body>
<form method="post" action="abcd.html">
enter number<input type="text" id="box1" maxlength="10"/>
<input type="submit" value="click here" onclick="return fun1()" />        <br />
</form>
</body>
</html>
```