

INNER SCRIPT:

Which will write inside the HTML file and specific to that HTML only.

EXTERNAL SCRIPT:

Which will write in external “.JS” file and used in any HTML file by declaring in

```
<script src="filename">
```

Variable:

Variables are used to **store values**

```
var name = "John";
```

In java script you can store the various kind of values in variables like integer,string,decimal.

As shown in below

```
var a = "Harsha";  
var b = "Vardhan";  
var c = a+b;  
document.write(c);  
  
var a = 1;  
var b = 2;  
var c = a+b;  
document.write(c);
```

Two kind of variables available in java script.

Local Variables: A variable which will declare inside the function. These variables work inside the function only.

```
function my(){  
var a = "Harsha";  
var b = "Vardhan";  
var c = a+b;  
document.write(c);  
}
```

Global Variables: A variable which will declare outside the function. These variables work inside the function only and outside the function.

```
var a = "Harsha";  
var b = "Vardhan";  
var c = a+b;  
function my(){  
document.write(c);  
}  
function my1(){  
document.write(c);  
}
```

Various ways to Print OutPut :

- Writing into an HTML element, using **innerHTML**.
- Writing into the HTML output using **document.write()**.
- Writing into an alert box, using **window.alert()**.
- Writing into the browser console, using **console.log()**.

Even odd number:

HTML

```
<script src="training.js">  
</script>  
<body>  
<input type="text" id="one"/>  
<p id="demo"></p>  
<input type="button" value="CHECK" onClick="my()">  
</body>
```

JS:

```
function my(){  
var first=document.getElementById("one").value;  
if((first%2) ==0 ){  
document.getElementById("demo").innerHTML = "even";  
}else{
```

```
document.getElementById("demo").innerHTML="odd";  
}  
}
```

Events:

Onmouseover:

```
<body>  
<input type="button" value="click" onmouseover="this.style.background='yellow'" />  
</body>
```

OnMouseout:

```
<body>  
<input type="button" value="click" onmouseout="this.style.background='blue'" />  
</body>
```

onClick:

```
<body>  
<input type="button" value="click" onclick="this.style.background='blue'" />  
</body>  
  
<body>  
<input type="button" value="click" onclick="function " />  
</body>
```

Window:

```
<input type="button" value="START"  
onclick="window.open('www.google.com','mywindow','height=200,width=300')" />
```

Dates:

```
<script>  
var a = new Date();  
document.write(a);  
  
var a = new Date().getFullYear();  
document.write(a);  
  
var a = new Date().getMonth();  
document.write(a);</script>
```

TimingEvents:

setInterval

```
<div id="time">

</div>

function getTime(){
    document.getElementById("time").innerHTML = new Date();
}

setInterval(getTime,1000);
```

clearInterval:

```
<div id="time">

</div>

function getTime(){
    document.getElementById("time").innerHTML = new Date();
}

var times;

function start(){
    times= setInterval(getTime,1000);
}

function stop(){
    clearInterval(times);
}
```

Functions: If you have a few lines of code that needs to be used several times.

Creating a Function

1. Use the keyword **function** followed by the name of the function.
2. After the function name, open and close parentheses.
3. After parenthesis, open and close curly braces.
4. Within curly braces, write your lines of code.

ArgumentedFunctions:

```
<body>

NO1<input type="text" id="feildone"/></br>
No2<input type="text" id="feildtwo"/></br>

<input type="button" value="ADD" onclick="add(parseInt(feildone.value),parseInt(feildtwo.value))"
/>

<input type="button" value="SUB" onclick="sub(parseInt(feildone.value),parseInt(feildtwo.value))"
/>

<input type="button" value="MUL"
onclick="mul(parseInt(feildone.value),parseInt(feildtwo.value))"/>

</body>

function add(a,b){
    var c;
    c = a + b;
    document.write(c);
}

function sub(a,b){
    var c;
    c = a - b;
    document.write(c);
}

function mul(a,b){
    var c;
    c = a * b;
    document.write(c);
}
```

ConditionalStatements:IF-Else

```
function check(){
    var number = document.getElementById("feildone").value;
    if((number%2) ==0){
document.write("EVENNUMBER");
    }else{
        document.write("ODDNUMBER");
    }
}
```

For:

```
function table(){
    var number=document.getElementById("feildone").value;
    for(var i=0;i<10;i++){
        var result=number*i;
document.write(number+"*"+i+"="+result+"</br>");
    }
}
```

While:

```
function table(){
    var number=document.getElementById("feildone").value;
    var i=0;
    while(i<10){
        var result=number*i;
document.write(number+"*"+i+"="+result+"</br>");
        i++;
    }
}
```

RegularExpression:

```
function regDemo(){
    var details=document.getElementById("feildone").value;
    var result = details.match(/[a-zA-Z][a-zA-Z]+\.[a-z]/);
    if(result){
        document.write("valid");
    }else{
        document.write("not valid");
    }
}

/^[a-zA-Z][a-zA-Z]+\.[a-z].com+$/
```

UserValidation:

```
<body>
<div id="errordiv" style="color:red;">
</div>
<form action="" onsubmit="return validate();">
First Name<input type="text" id="fname" onblur="return validate();"></br>
Last Name<input type="text" id="lname" onblur="return validate();"></br>
Email<input type="text" id="email" onblur="return validate();"></br>
Password<input type="text" id="password" onblur="return validate();"></br>
ReEnterPassword<input type="text" id="repassword" onblur="return validate();"></br>
<input type="submit">
</form>
</body>
<script>
function validate(){
    var fname=document.getElementById("fname").value;
    var lname=document.getElementById("lname").value;
    var email=document.getElementById("email").value;
    var password=document.getElementById("password").value;
    var repassword=document.getElementById("repassword").value;
```

```
if(fname ==null || fname==""){
    document.getElementById('errordiv').innerHTML="Firstname require";
    return false;
}
if(lname ==null || lname==""){
    document.getElementById('errordiv').innerHTML="Lastname require";
    return false;
}
if(email ==null || email==""){
    document.getElementById('errordiv').innerHTML="Email require";
    return false;
}
if(email!=null || email!=""){
    var result = email.match(/[a-zA-Z]@[a-zA-Z]+\.[a-z]/);
    if(result){

    }else{

        document.getElementById('errordiv').innerHTML="Email not valid";
        return false;
    }
}
if(password ==null || password==""){
    document.getElementById('errordiv').innerHTML="Password require";
    return false;
}
if(repassword ==null || repassword==""){
    document.getElementById('errordiv').innerHTML="Repassword require";
    return false;
}
```



```
        if(password!=repassword){
            document.getElementById('errordiv').innerHTML="Password Repassword
mustbe same";
            return false;
        }

        document.getElementById('errordiv').innerHTML="submitted suces";
        return true;
    }
</script>
```