

ARRAY

```
/-----array
var ary = [10,20,30,50];
var sum = 0;

document.write("<ol>")
for(a =0; a<=3;a++)
{
    document.write("<li>" + ary[a] + "</li>");
    sum = sum + ary[a];
}
document.write("sum is" + sum);
-----error check this
var sum = 0;
var ary = new Array();
for(var x =0; x < 3; x++)
{
    ary[x] = prompt("enter array value:")
}

document.write("<ol>");
for(var a =0; a < 3;a++)
{
    document.write("<li>" + ary[a] + "</li>");
    sum = sum + ary[a];
}
document.write("</ol>");
document.write("sum is" + sum);


var sum1 = 0;
var sum = 0;
var ary = new Array(10,20,30);    /// array can be write in this away if no value
are assign
for(var x =0; x < 3; x++)
{
    ary[x] = prompt("enter array value:")
}
```

```

    document.write(ary[x]);
    sum1 = sum1 + ary[x];
}

document.write("<ol>");
for(var a =0; a < 3; a++)
{
    document.write("<li>" + ary[a] + "</li>");
    sum = sum + ary[a];
}
document.write(sum);

}
document.write("</ol>");
document.write("sum is" + sum);
document.write("sum is" + sum1);

```

-----multideimensional array

```

var ary1 =
[
    ["mehar","21","cui"],
    ["ali","21","cui"],
]
document.write("<table border: 1px solid black cellpadding = '12'>");
for( var a =0; a <= ary1.length; a++)
{
    document.write("<tr>");
    for(var b =0; b <= ary1.length; b++)
    {
        console.log(ary1[a][b]);
        document.write("<td>${ary1[a][b]}</td>`");
    }
    document.write("</tr>");
}
document.write("</table>");

```

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modify and remove array element

```

var a = ["Name", 18, "bce"];
a[1] = 20;    /// update value of index 1
document.write(a);

```

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delete a[0];    // delete value of a
document.write("<br>");
document.write(a);

//array method ----- ARRAY -SORTED() FUNCTION


var x = ["mehar","ahmad","zahid"];
document.write(x + "<br>");
-----sort and reverse
x.sort();      // sort alphabetcal order
document.write(x + "<br>");
x.reverse();   // reverse the order of array
document.write(x + "<br>");


-----push and pop
Pop --- it delete form last
push add value at last
x.pop();      // --delete last value
document.write(x + "<br>");
x.push("fahad"); // add value at last
document.write(x + "<br>");


-----shift and unshift
x.shift();    // --delete first value
document.write(x + "<br>");
x.unshift("ali"); // --add value at first
document.write(x + "<br>");


----- con
var x = ["mehar","ahmad","zahid"];
var b = x.contact("umar","waleed"); // ----error
document.write(b);


----- concat and join
var a = ["mehar","ahmad","zahid"];
var b = ["umar","waleed"];
var f = ["umar","waleed"]; //----combine different array in one array;
var c = a.concat(b)

```

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document.write(c);

/ -----array concat[COMBINE TWO OR MORE ARRAY] and
join[CONVERT ARRAY TO STRING] ]

var a = ["mehar","ahmad","zahid"];
var b = ["umar","waleed"];
var f = ["umar","waleed"]; //----combine different array in one array;
var c = a.concat(b + "<br>");
var d = c.join("#") // make only one string
document.write(d);

/ -----splice[GIVE ARRAY ANY PART ADD NEW ITEM AND ALSO
DELETE]
-----slice[DELETE OR MAKING ARRAY FORM INSIDE ARRAY]

;
var a = ["mehar","ahmad","zahid"];
var b = ["umar","waleed","dil","gg"]; //----combine different array in one array;
var c = a.concat(b + "<br>");
document.write(c + "<br>"); // make only one string
var m = c.slice(3,5); //start where first index
var m = c.slice(-2); // -5, -4,-3,-2,-1 for negative & for +tive
0,1,2,3,4,5 --->run side
document.write(m)

//splice (index,howmany ,value ) ----> also used for delete

c.splice(2,1,"asad","hamaza") // add but when used two 2 delete index
its delete all the value
document.write(c);

c.splice(1,2) // add
document.write(c);

-----isArray()[CHECK WEATHER IS ARRAY OR NOT] check
where this is array or not
var a = ["mehar","ahmad","zahid"];
document.write(a + "<br>");
var b = Array.isArray(a); // check wheather this is array
document.write(b + "<br>");

```

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    if(b)
    {
        document.write("good thing");
    }

-----indexOf()[CHECK ITEM LOCATION FORM START]    check
where this is array or not
-----LASTindexOf()[CHECK ITEM LOCATION FORM END]

var a = ["mehar","ahmad","zahid"];
var b = a.indexOf("ahmad",2);    // GIVE LOCATION OF WHERE OVER ITEMS
document.write(b);

var a = ["mehar","ahmad","zahid"];
var b = a.indexOf("ahmad",2);    // GIVE LOCATION OF WHERE OVER ITEMS
document.write(b);

var a = ["mehar","ahmad","zahid","ahmad"];
var b = a.lastIndexOf("ahmad",2);    // GIVE LOCATION OF WHERE OVER ITEMS
document.write(b);

----- USED FOR SEARCH ::::::::::INCLUDE
var a = ["mehar","ahmad","zahid"];
document.write(a + "<br>");
var b = a.includes("mehar");    // check wheather this is array
document.write(b + "<br>");
    if(b)
    {
        document.write("good thing");
    }

-----some()-- [used condition inside the array &    MUST NEED
FUNCTION ]
----- any value match with its value
var t = [10,20,30,40]
document.write(t + "<br>");
var f = t.some(chage);    // check wheather value inside or not
document.write(f);

function chage(t){    // ----- its check value
    t<= 18
    return t
}

```

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-----every()-- [ must all value true --
                used condition inside the array &  MUST NEED FUNCTION ]
var t = [10,20,30,40]
document.write(t + "<br>");
var f = t.every(chage);  // check wheather value inside or not
document.write(f);

function chage(t){      // ----- its check value
    t<= 18
    return  t
}

----- findindex ----[return the first value  index that clear condition ]
    var t = [10,20,30,40]
document.write(t + "<br>");
var f = t.findIndex(chage);  // check wheather value inside or not
document.write(f);

function chage(t){      // ----- its check value
    t<= 18
    return  t
}

// ----- findindex ----[return the first value that clear condition ]
var t = [10,20,30,40]
document.write(t + "<br>");
var f = t.find(chage);  // check wheather value inside or not
document.write(f);

function chage(t){      // ----- its check value
    t<= 18
    return  t
}

----- filter ----[make new array if condition element true of this array ]

var t = [10,20,30,40];
document.write(t + "<br>");
var f = e.filter(chage);  // check wheather value inside or not
document.write(f);
var e

```

```

function chage(e){          // ----- its check value
    e<= 18;
    return e;
}

// toString convert array into string
var t = [10,20,30,40];
-----string
t.toString();
document.write("<br>");
document.write(t);
// simple like document.write
-----value
t.valueOf();
document.write("<br>");
document.write(t);
-----fill
t.fill(10);
document.write("<br>");
document.write(t);

-----foreach()// var t = [10,20,30,40];
-----string
var t = [10,20,30,40];

t.forEach(loop);
function loop(value, index)
{ if(t <= 20){
    document.write(index + " " + value);
}}

.....1234567890-09876543211
-----object____--

var a ={
    fname : 'mehar',
    lname : 'dil',
    age   : 22,
    semester : [1,2,3,4,5,6,7],
    gpa:    function(){
        return 3.0;
    },

```

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    fullname : function(){
        return this.fname + " " + this.lname;
    },
    bobject: {
        'city' : 'haripur',
        'post' : 'snkharipur',

    },
}
console.log(a);
document.write(a.fname);
document.write(a.samester);
document.write(a.gpa());
document.write(a.fullname());
document.write("<br>");
document.write(a.bobject.city);

-----object method 2  update valuee easily  -----
var person = new Object();
{
    person.fname = "MEHAR",
    person.lnme = "DIL";
}
document.write(person.fname);
document.write(person['lname']);

-----array of object
var s =
[
{
    name : "ali",          //index 0
    age : "12"
},
{
    name : "mehar",        // index 1
    age : "12"
},
{
    name : "shairi",        //index 2
    age : "12"
},
]

console.log(s);

```



```
for (let a = 0; a < s.length; a++) {  
  document.write(s[a].name + " " + s[a].age + "<br>");  
}
```

change value of of const variable assign both array and also objects

```
const a = [1,2,3,4,5];  
a[1] =25; // change index value  
a[2] = 20;
```

```
console.log(a)
```

```
const b = {  
  name : "malok",  
  age : 21  
};  
b.name = "mehar";  
b.age =22;  
console.log(b);
```

```
/// for /in loop
```

```
var s =  
[  
{  
  name : "ali", //index 0  
  age : "12"  
},  
{  
  name : "mehar", // index 1  
  age : "12"  
},  
{  
  name : "shairi", //index 2  
  age : "12"  
}  
]
```

```

var obj = {
  fname : 'mehar',    // fname is key    and obj is value of key
  lname : 'dil',
  age   : 22,
  semester : [1,2,3,4,5,6,7],
  gpa:    function(){
    return 3.0;
  },
  fullname :    function(){
    return this.fname + " " + this.lname;
  },
  bobject: {
    'city' : 'haripur',
    'post' : 'snkharipur',

  }
};

for (const key in obj) {
  document.write(key + " " + obj[key] + "<br>");

}

// array value change function...

var a = [1,2,3,4,5,6,7];
var b = a.map(fun1);
function fun1(x){
  return x*20;
}
document.write(b);

var s =
[
{
  name : "ali",      //index 0
  age  : "12"
},
{
  name : "mehar",    // index 1
  age  : "12"
},
{
  name : "shairi",    //index 2

```

```
    age : "12"  
  }  
]  
var b = s.map(fun1);  
function fun1(x){  
  return x.name + " " + x.age;  
}  
document.write(b);
```