٢   جزوه آموزشی جاوا اسکریپت

٣   `<script src="myScript.js"></script>`

٤   events

٥   `document.write();`

٦   `window.document.getElementById();`

٧   `document.getElementById(`*id*`)`

٨   `document.getElementsByTagName(`*name*`)`

٩   `document.getElementsByClassName(`*name*`)`

١٠   `document.createElement(`*element*`)`

١١   `document.removeChild(`*element*`)`

١٢   `document.appendChild(`*element*`)`

١٣   `document.replaceChild(`*element*`)`

١٤   `window.alert();`

١٥   `window.confirm();`

١٦   `console.log();`

١٧   `var x,y,z=1;`

١٨   `x++; x--;`

١٩   `y-=10;`

٢٠   `x = z*2;`

٢١   `z %=2;`

٢٢   `if(a == 2)`

٢٣   `else if(b === 5)`

٢٤   `else`

٢٥   `if (a != 5)`

٢٦   `if(a !== 5)`

٢٧   `if(b >= 5 && a <= 2 || c != 3)`

٢٨   32 bit = 4*8 bit &, |, ~, ^, << Zero fill left shift, >> Signed right shift, >>> Zero fill right shift

٢٩   `5&1 = 1, 5|1 = 5, ~5 = 10, 5^1 = 4, 5<<1 = 10, 5>>1 = 2, 5>>>1 = 2`

```javascript
var length = 16;  // Number
var lastName = "Johnson"; // String
var x = {firstName:"John", lastName:"Doe"}; // Object
var f = true;  // Boolean
var arr = ["Saab", "Volvo", "BMW"]; // array
var cars = new Array("Saab", "Volvo", "BMW");
var person = [];
var m; // undefined
var a = function(){};// function
a = null; // object
var x1 = {};        // new object
var x2 = "";        // new primitive string
var x3 = 0;         // new primitive number
var x4 = false;     // new primitive boolean
var x5 = [];        // new array object
var x6 = function(){}; // new function object
arr.push("NewValue");
arr.pop();
arr.shift();
arr.unshift("Lemon");
arr.toString();
arr.sort();
arr.reverse();
var person = []; // person is an array
person["firstName"] = "John";
person["lastName"] = "Doe";
person["age"] = 46;
var x = person.length;        // person.length will return 0
var y = person[0];            // person[0] will return undefined
var person = {}; // person is an object
var person = {firstName:"John", lastName:"Doe", age:50, eyeColor:"blue"};
var person = { fn: "John", ln:"Doe",  fullName : function() {     return this.fn;    }};
person.fn;
```

```
٦٣    fn.length;

٦٤    var str = "Please locate occurs";

٦٥    var pos = str.indexOf("locate");

٦٦    var str = "HELLO WORLD";

٦٧    str[0];              // returns H

٦٨    isNaN(x);

٦٩    var myNumber = 32;

٧٠    myNumber.toString(10);   // returns 32

٧١    myNumber.toString(16);  // returns 20

٧٢    myNumber.toString(8);   // returns 40

٧٣    myNumber.toString(2);   // returns 100000

٧٤    Number();

٧٥    String();

٧٦    Object();

٧٧    str.toUpperCase();

٧٨    parseFloat();

٧٩    parseInt();

٨٠    for(var i=0; i<5; i++)

٨١    while(x < 10)

٨٢    do {
٨٣       a++;

٨٤    }while (a < 10);

٨٥    switch(a){

٨٦           case '1' : alert(1);break;

٨٧           default: alert('N');

٨٨    }

٨٩    var B = 'reza';

٩٠    var A = 'ali' + ',' + B;

٩١    innerHTML

٩٢    document.getElementById("p2").style.color = "blue";
```

```
٩٣    onclick="A();"

٩٤    var a = 1;

٩٥    function A(){

٩٦        var a=0;

٩٧    }

٩٨    function t1(x, y = 10)

٩٩    var str = "Visit Microsoft!";
١٠٠   var res = str.replace("Microsoft", "W3Schools");

١٠١   document.getElementById(id).onclick = function(){code};

١٠٢   Math.random();

١٠٣   Math.PI;

١٠٤   Math.round(4.7);   // returns 5

١٠٥   Math.round(4.4);   // returns 4

١٠٦   Math.pow(8, 2);    // returns 64

١٠٧   Math.sqrt(64);    // returns 8

١٠٨   Math.abs(-4.7);   // returns 4.7

١٠٩   Math.ceil(4.4);    // returns 5

١١٠   Math.floor(4.7);   // returns 4

١١١   Math.sin(90 * Math.PI / 180);    // returns 1 (the sine of 90 degrees)

١١٢   Math.min(0, 150, 30, 20, -8, -200);  // returns -200

١١٣   Math.max(0, 150, 30, 20, -8, -200);  // returns 150

١١٤   Math.floor(Math.random() * 10);    // returns a number between 0 and 9

١١٥   var voteable = (age < 18) ? "Too young" : "Old enough";

١١٦   // if(age < 18)

١١٧        //return "Too young"

١١٨   //else

١١٩        //return "Old enough"

١٢٠   var d = new Date();

١٢١   document.getElementById("demo").innerHTML = d.getTime();

١٢٢   document.getElementById("demo").innerHTML =

١٢٣   d.getFullYear()+'/'+d. getMonth()+'/'+ d.getDate();
```

```
١٢٤    json:

١٢٥    {
١٢٦    "employees":[
١٢٧      {"firstName":"John", "lastName":"Doe"},
١٢٨      {"firstName":"Anna", "lastName":"Smith"},
١٢٩      {"firstName":"Peter", "lastName":"Jones"}
١٣٠    ]
١٣١    }

١٣٢    var obj = JSON.parse(text);

١٣٣    onsubmit="return validateForm()"

١٣٤    var myVar = setTimeout(function(){ alert("Hello"); }, 3000);

١٣٥    clearTimeout(myVar);

١٣٦    var myVar = setInterval(function(){ alert("Hello"); }, 3000);

١٣٧    clearInterval(myVar);

١٣٨    (function () {
١٣٩      var x = "Hello!!";     // I will invoke myself
١٤٠    })();

١٤١    function A(callback){

١٤٢          …

١٤٣          …

١٤٤          callback();

١٤٥    }

١٤٦    function B(){

١٤٧          do something;

١٤٨    }

١٤٩    A(B); // Now you are sure that B() will run when A() is finished

١٥٠    OOP with Javascript:

١٥١    function A(init){ // this is class
١٥٢      alert('in constructor A');
١٥٣      this.par1 = init;
١٥٤    }
١٥٥    A.prototype.par2= "34";
١٥٦    A.prototype.M = function(){ // this is method
١٥٧      alert('in Method M');
```

```
۱۰۸        this.par1++;
۱۰۹      }

۱۶۰

۱۶۱    var myobj = new A(10); // myobj is an object of class A
۱۶۲    myobj.M();
۱۶۳    alert(myobj.par1);

۱۶٤    alert(myobj.par2);

۱۶٥    myobj.par1 = 5;

۱۶۶    alert(myobj.par1);

۱۶۷
```