var a = 2;

undefined

typeof a

"number"

var a="2";

undefined

typeof a

"string"

a = true;

true

typeof a

"boolean"

var a[];

VM41267:1 Uncaught SyntaxError: Unexpected token [

var b=[];

undefined

b.push('1');

1

b.push(2);

2

a={};//to convert it to object

{}

var b = {name:"b"};

undefined

b

{name: "b"}

b.name

"b"

var c = {};

c= {name:"ccc"};

{name: "ccc"}

c

{name: "ccc"}

//creating objects and add it all into a array

var movie1={name:"interstellar",year:2014,rating:4};

undefined

var movie2={name:"avatar",year:2016,rating:4};

undefined

var movie2={name:"tintin",year:2015,rating:3.5};

undefined

var movie2={name:"titanic",year:2000,rating:3.5};

undefined

var movie3={name:"tintin",year:2015,rating:3.5};

undefined

var movie4={name:"avatar",year:2016,rating:4};

undefined

var aOfMovies = [movie1,movie2,movie3,movie4];

//for loop to display names of movies

for(var i=0;i<aOfMovies.length;i++){console.log(aOfMovies[i].name);}

VM1128:1 interstellar

VM1128:1 titanic

VM1128:1 tintin

VM1128:1 avatar

undefined

//for each

aOfMovies.forEach(function(key,index){console.log(key.year);})

VM1221:1 2014

VM1221:1 2000

VM1221:1 2015

VM1221:1 2016

//function

function display(aOfMovies){for(var i=0;i<aOfMovies.length;i++){console.log(aOfMovies[i].name);}}

display(aOfMovies);

VM1489:1 interstellar

VM1489:1 titanic

VM1489:1 tintin

VM1489:1 avatar

//passing array , a function into object

movieutil={movie:aOfMovies,getName:function dislay(aOfMovies){}};

or

//assigning the function to a variable

var func = function display(aOfMovies){for(var i=0;i<aOfMovies.length;i++){console.log(aOfMovies[i].name);}};

movieutil={movie:aOfMovies,getName:func};

or

//entering the function in the obj properties itself

movieutil={ movie:aOfMovies,getName:function display(aOfMovies){for(var i=0;i<aOfMovies.length;i++){console.log(aOfMovies[i].name);}}};

//add,sub,mul

var fa=function add(a,b){console.log(a+b);};

undefined

var fs=function sub(a,b){console.log(a-b);};

undefined

var fm=function mul(a,b){console.log(a\*b);};

var mathLib ={"add":fa,"sub":fs,"mul":fm};

mathLib.add(1,2);

VM1956:1 3

//to check if inputs are only numbers

function addcheck(a,b ){if(typeof(a)!="number" || typeof(b)!="number"){console.log("enter number");}else{console.log(a+b);}}

undefined

addcheck(a,1);

VM2293:1 enter number

//when no arguments given

function addcheck1(a,b ){if(a && b){if(typeof(a)!="number" || typeof(b)!="number"){console.log("enter number");}else{console.log(a+b);}} else{console.log("enter input");}}

undefined

addcheck1();

VM2431:1 enter input

Or

function addcheck1(a,b ){if(a =="" || b==""){if(typeof(a)!="number" || typeof(b)!="number"){console.log("enter number");}else{console.log(a+b);}} else{console.log("enter input");}}

undefined

addcheck1();

VM2459:1 enter input

//INNER HTML

var a = document.getElementById("suggestions-list");

undefined

a.innerHTML="<div> i am awesome </div>";

//to display names on page

for(var i=0;i<aOfMovies.length;i++){ movieHTML = movieHTML+ "</div>" + aOfMovies[i].name + "</div>";}