**Assignment 03:**

1. Write a JavaScript function to check whether an `input` is an array or not.

Test Data :

console.log(is\_array('w3resource'));

console.log(is\_array([1, 2, 4, 0]));

false

true

is\_array = function(input) {

if (toString.call(input) === "[object Array]")

return true;

return false;

};

document.write(is\_array('w3resource'));

document.getElementById("demo").innerHTML =is\_array([1, 2, 4, 0]);

console.log(is\_array('w3resource'));

console.log(is\_array([1, 2, 4, 0]));

1. Write a JavaScript program to find the most frequent item of an array.

Sample array : var arr1=[3, 'a', 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 3];

Sample Output : a ( 5 times )

var arr1=[3, 'a', 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 3];

var mf = 1;

var m = 0;

var item;

for (var i=0; i<arr1.length; i++)

{

for (var j=i; j<arr1.length; j++)

{

if (arr1[i] == arr1[j])

m++;

if (mf<m)

{

mf=m;

item = arr1[i];

}

}

m=0;

}

document.write(item+" ( " +mf +" times ) ");

console.log(item+" ( " +mf +" times ) ") ;

1. Write a JavaScript function to check whether an `input` is a date object or not.

Test Data :

console.log(is\_date("October 13, 2014 11:13:00"));

console.log(is\_date(new Date(86400000)));

console.log(is\_date(new Date(99,5,24,11,33,30,0)));

console.log(is\_date([1, 2, 4, 0]));

Output :

false

true

true

false

var is\_date = function(input) {

if ( Object.prototype.toString.call(input) === "[object Date]" )

return true;

return false;

};

console.log(is\_date("October 13, 2014 11:13:00"));

console.log(is\_date(new Date(86400000)));

console.log(is\_date(new Date(99,5,24,11,33,30,0)));

console.log(is\_date([1, 2, 4, 0]));

document.write(is\_date("October 13, 2014 11:13:00"));

document.write(is\_date(new Date(86400000)));

document.write(is\_date(new Date(99,5,24,11,33,30,0)));

document.write(is\_date([1, 2, 4, 0]));

1. Write a JavaScript function to get the month name from a particular date.

Test Data :

console.log(month\_name(new Date("10/11/2009")));

console.log(month\_name(new Date("11/13/2014")));

Output :

"October"

"November"

var month\_name = function(dt){

mlist = [ "January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December" ];

return mlist[dt.getMonth()];

};

console.log(month\_name(new Date("10/11/2009")));

console.log(month\_name(new Date("11/13/2014")));

document.write(month\_name(new Date("10/11/2009")));

document.write(month\_name(new Date("11/13/2014")));

1. Write a JavaScript function to find the highest value in an array.

Test Data :

console.log(max([12,34,56,1]));

console.log(max([-12,-34,0,-56,-1]));

56

0

function max(input) {

if (toString.call(input) !== "[object Array]")

return false;

return Math.max.apply(null, input);

}

console.log(max([12,34,56,1]));

console.log(max([-12,-34,0,-56,-1]));

document.write(max([12,34,56,1]));

document.writeln();

document.write(max([-12,-34,0,-56,-1]));

1. <https://www.w3resource.com/javascript-exercises/javascript-array-exercise-1.php>
2. <https://www.w3resource.com/javascript-exercises/javascript-array-exercise-8.php>
3. <https://www.w3resource.com/javascript-exercises/javascript-date-exercise-1.php>
4. <https://www.w3resource.com/javascript-exercises/javascript-date-exercise-4.php>
5. <https://www.w3resource.com/javascript-exercises/javascript-math-exercise-6.php>