**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

function isArray(x) {

return x.constructor.toString().indexOf("Array") > -1;

}

console.log(isArray('w3resource'))

console.log(isArray([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 )

function mostFrequent(arr)

{

arr.sort();

var A = [arr[0]];

var B = [0]

var j = 0;

var maxIdex = 0;

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

if (arr[i]===A[j]) B[j]++;

else {

if(B[j]>B[j]-1) maxIndex = j;

j++

A[j]=arr[i]

B[j]=1

}

if(B[j]>B[j]-1) maxIndex = j;

}

return A[maxIndex]+" ("+B[maxIndex]+" times)";

}

arr = [3, 'a', 'a', 'a', 2, 3, 'a', 3, 'a', 2, 4, 9, 3];

console.log(mostFrequent(arr))

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

function is\_date(value) {

var dateWrapper = new Date(value);

return !isNaN(dateWrapper.getDate());

}

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]));

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"

function month\_name(input){

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

return myMouth[input.getMonth()]

}

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

console.log(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(arr){

arr.sort(function(a, b){return a - b})

return arr[arr.length-1]

}

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

console.log(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>