# JavaScript Exercise Set 1

**Q 1** Write a JavaScript program to display the current day and time in the following format mm/dd/yyyy?

**Q 2** Write a JavaScript conditional statement to find the largest of five numbers?

**Q 3** Write a JavaScript program which accept a number as input and insert dashes (-) between each two even numbers. For example if you accept 025468 the output should be 0-254-6-8?

**Q 4** Write a JavaScript program to sort strings items of an array in both alphabetically ascending and descending order?

**Q 5** Write a JavaScript program to remove duplicate items from an array?

**Q 6** Write a JavaScript function to find the difference of two arrays?

**Q 7** Write a JavaScript function to sort the following array of objects by title value?

Sample object :

var library = [

{ author: 'Bill Gates', title: 'The Road Ahead', libraryID: 1254},

{ author: 'Steve Jobs', title: 'Walter Isaacson', libraryID: 4264},

{ author: 'Suzanne Collins', title: 'Mockingjay: The Final Book of The Hunger Games', libraryID: 3245}

];

Expected result :

[[object Object] {

author: "Suzanne Collins",

libraryID: 3245,

title: "Mockingjay: The Final Book of The Hunger Games"

}, [object Object] {

author: "Bill Gates",

libraryID: 1254,

title: "The Road Ahead"

}, [object Object] {

author: "Steve Jobs",

libraryID: 4264,

title: "Walter Isaacson"

}]

**Q 8** Write a pattern that matches e-mail addresses?

a.Uppercase (A-Z) and lowercase (a-z) English letters.

b.Digits (0-9).

c.Characters ! # $ % & ' \* + - / = ? ^ \_ ` { | } ~

d.Character . ( period, dot or fullstop) provided that it is not the first or last character and it will not come one after the other.

**Q 9** Write a JavaScript program to list the properties of a JavaScript object?

Sample object :

var student = {

name : "David Rayy",

sclass : "VI",

rollno : 12 };

Sample Output : name, sclass, rollno

**Q 10** Write a JavaScript program which compute, the average marks of the following students Then, this average is used to determine the corresponding grade?

Student Name Marks

David 80

Vinoth 77

Divya 88

Ishitha 95

Thomas 68

Range Grade

<60 F

<70 D

<80 C

<90 B

<100 A

**Q 11** Write a JavaScript function that returns a passed string with letters in alphabetical order?

Example string : 'webmaster'

Expected Output : 'abeemrstw'

**Q 12** Write a JavaScript function that accepts two arguments, a string and a letter and the function will count the number of occurrences of the specified letter within the string.

Sample arguments : 'gmail.com', 'm'

Expected output : 2

**Q 13** Flatten the following object:var myObj = [5, [22], [[14]], [[4]],[5,6]]

Note: the output should be in the form:[ 5, 22, 14, 4, 5, 6 ]

**Q 14.** Consider the following object:

var myObj =

[{'name':'Saurabh', 'age': 30, 'occupation': "Team Leader"},

{'name':'Anupriya', 'age': 32, 'occupation': "Team Leader"},

{'name':'Kalyani', 'age': 25, 'occupation': "Programmer"},

{'name':'Damodaran', 'age': 27, 'occupation': "Programmer"},

{'name':'Krishnakath', 'age': 22, 'occupation': "Programmer"},

{'name':'Venketraman', 'age': 28, 'occupation': "Programmer"}];

Exercise 1: Display all objects with occupation as 'Programmer'

Exercise 2: Sort the object basis the age key in the descending order

Exercise 3: Recreate the above array of objects into the following object of objects :{ 'Team Leader' : [{'name':\_\_\_\_\_\_\_\_\_\_\_\_\_, 'age':\_\_\_\_\_\_\_\_\_\_},{}],

'<anotheroccupation>': [{'name':\_\_\_\_\_\_\_\_\_\_\_\_\_\_, 'age':\_\_\_\_\_\_\_\_},{}]}

Exercise 4: Use the map function to create a new array containing only names present in myObj.

Expected output:

[ 'Saurabh'

'Anupriya',

'Kalyani',

'Damodaran',

'Krishnakath',

'Venketraman' ]

**Q 15** Convert the following JSON string to an object and access the value of the jason property.

var jsonStr = '{"mike":"Book","jason":"sweater","chels":"iPad"}';

**Q 16** Consider this object:

var obj = {

"One":"1",

"Two":"2",

"Three":"3",

"Four":"4"

}

Convert it into JavaScript array like:

["1","2","3","4"]