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**JavaScript Assignment - 2**

1) With example illustrate variable and function closure in javascript.

var add = (function () {

var counter = 0;

return function () {counter += 1; return counter;}

})();

undefined

add();

1

add();

2

add();

3

2) Write a javascript function named reverse which takes a string argument and returns the

reversed string.

function reverse(){

var str = "My Name is Viraj";

var rev\_str="";

for(var i = str.length-1;i>=0;i--)

{

rev\_str=rev\_str+str[i];

}

return rev\_str;

}

reverse();

"jariV si emaN yM"

3) Given a javascript array of objects having a radius property as shown [{radius: 5}, {radius: 9},

{radius: 2}] , write a comparator function to sort it.

var circleArr = [

{radius: 5},

{radius: 9},

{radius: 2}

];

circleArr.sort(function (a, b)

{

return a.radius - b.radius;

});

(3) [{…}, {…}, {…}]

0: {radius: 2}

1: {radius: 5}

2: {radius: 9}

4) Write a Javascript program to sort elements of an array using sorting algorithm

var arr = [10,4,2,1,5,7,9];

function sor\_arr(arr)

{

var temp=0;

var i,j;

for(i=0;i<arr.length-1;i++)

{

for(j=i+1;j<arr.length;j++)

{

if(arr[i]>arr[j])

{

temp=arr[i];

arr[i]=arr[j];

arr[j]=temp;

}

}

}

return arr;

}

sor\_arr(arr);

[1, 2, 4, 5, 7, 9, 10]

5) Write a javascript function named length\_of\_array , which takes an array as argument and

returns the number of elements in that array (as opposed to what is given by the length

property of the array). Remember undefined can also be an element if it is explicitly set at some

index, e.g. x[5] = undefined; . This undefined should be counted, but elements which are not

present in the array (as arrays can be sparse), should not be counted.

function length\_of\_array(arr)

{

var count = arr.filter(function (x)

{

if(x != "" || x != null)

return true;

else

return false;

});

return count.length;

}

var array1 = [2,,8,5,9,,6,,undefined,1,0,null,3];

length\_of\_array(array1);

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