**Assignment 02:**

1. Write a JavaScript function that reverse a number.

Example x = 32243;

Expected Output : 34223

function reverse\_a\_number(n)

{

n = n + "";

return n.split("").reverse().join("");

}

console.log(reverse\_a\_number(32243));

1. Write a JavaScript function that checks whether a passed string is palindrome or not?

A palindrome is word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run.

function check\_Palindrome(str\_entry){

// Change the string into lower case and remove all non-alphanumeric characters

var cstr = str\_entry.toLowerCase().replace(/[^a-zA-Z0-9]+/gi,'');

var ccount = 0;

if(cstr==="") {

alert("Nothing found!");

return false;

}

if ((cstr.length) % 2 === 0) {

ccount = (cstr.length) / 2;

} else {

if (cstr.length === 1) {

{

document.write("Entry is a palindrome.");

document.writeln("\n");}

return true;

} else {

ccount = (cstr.length - 1) / 2;

}

}

for (var x = 0; x < ccount; x++) {

// Compare characters and drop them if they do not match

if (cstr[x] != cstr.slice(-1-x)[0]) {{

document.write("Entry is not a palindrome.");

document.writeln("\n");}

return false;

}

}

document.write("The entry is a palindrome.");

return true;

}

check\_Palindrome('madam');

check\_Palindrome('nurses run');

check\_Palindrome('fox');

check\_Palindrome('f');

1. Write a JavaScript function that generates all combinations of a string. Example string : 'dog'

Expected Output : d,do,dog,o,og,g

//Write a JavaScript function that generates all combinations of a string.

function substrings(str1)

{

var array1 = [];

for (var x = 0, y=1; x < str1.length; x++,y++)

{

array1[x]=str1.substring(x, y);

}

var combi = [];

var temp= "";

var slent = Math.pow(2, array1.length);

for (var i = 0; i < slent ; i++)

{

temp= "";

for (var j=0;j<array1.length;j++) {

if ((i & Math.pow(2,j))){

temp += array1[j];

}

}

if (temp !== "")

{

combi.push(temp);

}

}

console.log(combi.join("\n"));

}

substrings("dog");

1. Write a JavaScript program to list the properties of a JavaScript object. Go to the editor

Sample object:

var student = {

name : "David Rayy",

sclass : "VI",

rollno : 12 };

Sample Output: name,sclass,rollno

function \_keys(obj)

{

if (!isObject(obj)) return [];

if (Object.keys) return Object.keys(obj);

var keys = [];

for (var key in obj) if (\_.has(obj, key)) keys.push(key);

return keys;

}

function isObject(obj)

{

var type = typeof obj;

return type === 'function' || type === 'object' && !!obj;

}

console.log(\_keys({red: "#FF0000", green: "#00FF00", white: "#FFFFFF"}));

1. Write a JavaScript program to get the length of an JavaScript object. Go to the editor

Sample object :

var student = {

name : "David Rayy",

sclass : "VI",

rollno : 12 };

//Write a JavaScript program to get the length of an JavaScript object.

Object.objsize = function(Myobj) {

var osize = 0, key;

for (key in Myobj) {

if (Myobj.hasOwnProperty(key)) osize++;

}

return osize;

};

var student = {

name : "David Rayy",

sclass : "VI",

rollno : 12,

birth : 12,

phone : 324 };

var objsize = Object.objsize(student);

alert('Size of the current object : '+objsize);

1. <https://www.w3resource.com/javascript-exercises/javascript-function-exercise-1.php>
2. <https://www.w3resource.com/javascript-exercises/javascript-function-exercise-2.php>
3. <https://www.w3resource.com/javascript-exercises/javascript-function-exercise-3.php>
4. <https://www.w3resource.com/javascript-exercises/javascript-object-exercise-1.php>
5. <https://www.w3resource.com/javascript-exercises/javascript-object-exercise-3.php>