**Assignment 02:**

1. Write a JavaScript function that reverse a number.

Example x = 32243;

Expected Output : 34223

Answer

<!DOCTYPE html>

<html>

<body>

<h2>Manh Cao Van</h2>

<p>Excercise 1</p>

<p id="demo"></p>

<script>

function reverseNumber(n)

{

n = n.toString();

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

}

document.write(reverseNumber(32243));

</script>

</body>

</html>

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.

Answer

<h2>Manh Cao Van</h2>

<p>Excercise 2</p>

<p id="demo"></p>

<script>

function check\_Palindrome(str\_entry){

// Doi string thanh chu thuong va loai bo cac ki tu dac biet

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

var ccount = 0;

// kiem tra string cophai la rong khong

if(cstr==="") {

document.write("Nothing found!");

return false;

}

// Kiem tra ki so ki tu cua string la chan hay le

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

ccount = (cstr.length) / 2;

} else {

// truong hop string chi co 1 ki tu

if (cstr.length === 1) {

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

return true;

} else {

// truong hop so ki tu a le thi bo qua ki tu o giua

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

}

}

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

// Lan luot kiem tra ki tu dau va cuoi

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

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

return false;

}

}

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

return true;

}

check\_Palindrome('1');

check\_Palindrome('123a321');

check\_Palindrome('a123321a');

check\_Palindrome('1$');

</script>

</body>

</html>

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

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

Answer

<!DOCTYPE html>

<html>

<body>

<h2>Manh Cao Van</h2>

<p>Excercise 3</p>

<p id="demo"></p>

<script>

function combineString(str)

{

var array = [];

if(str === "") {

document.write("'" + str + "'" + " is empty<br>");

}

for (var x = 0; x < str.length; x++)

{

array[x]=str.substr(x, 1);

}

var combine = [];

var temp = "";

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

{

temp = "";

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

temp += array[j];

combine.push(temp);

}

}

document.write("3. " + combine.join(", "));

}

combineString("dog");

</script>

</body>

</html>

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

Answer

<!DOCTYPE html>

<html>

<body>

<h2>Manh Cao Van</h2>

<p>Excercise 3</p>

<p id="demo"></p>

<script>

var student = {

name : "David Rayy",

sclass : "VI",

rollno : 12

};

function getObject(obj ) {

document.write("Output: " + Object.getOwnPropertyNames(obj).join(", "));

}

getObject(student);

</script>

</body>

</html>

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 };

Answer

<!DOCTYPE html>

<html>

<body>

<h2>Manh Cao Van</h2>

<p>Excercise 3</p>

<p id="demo"></p>

<script>

var student = {

name : "David Rayy",

sclass : "VI",

rollno : 12

};

function getObjLength(obj) {

document.write("5. Output: " + Object.keys(obj).length);

}

getObjLength(student);

</script>

</body>

</html>