**Assignment 02: Pham Tien Thanh**

1. Write a JavaScript function that reverse a number.

Example x = 32243;

Expected Output : 34223

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var x = 1234;

function reverseString(num){

numString = num.toString()

var reversed ="";

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

reversed += numString[i];

}

return reversed;

}

console.log(reverseString(x));

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.

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function reverseString(num){

numString = num.toString()

var reversed ="";

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

reversed += numString[i];

}

return reversed;

}

function checkPalindrome(str){

xStr = reverseString(str);

if (xStr === str){

return true;

}

else return false;

}

console.log(checkPalindrome("madam"))

console.log(checkPalindrome("nursesrun"))

console.log(checkPalindrome("palindrome"))

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

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

function copyStringFromNToM(n,m,str){

var temp = ""

for (var i=n;i<m;i++){

temp += str[i];

}

return temp;

}

function combinations(str){

var outText = []

var temp = ""

var strCopy = ""

var i = 0

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

temp = "";

var n = outText.length;

strCopy = copyStringFromNToM(j,str.length,str);

for (i=n;i<n+strCopy.length;i++){

temp +=strCopy[i-n];

outText[i] = temp;

}

}

return outText;

}

console.log(combinations("dogx"))

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

var student = {

name: "Tien Thanh",

class: "SD3",

gpa: 2.8

};

function listPropertiesOfObject(obj){

if (typeof(obj) === "object"){

return Object.getOwnPropertyNames(obj).join(",")

}

else

return "is not object"

}

console.log(listPropertiesOfObject(student))

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 };

var student = {

name: "Tien Thanh",

class: "SD3",

gpa: 2.8

};

function lengthOfObject(obj){

if (typeof(obj) === "object"){

return Object.keys(obj).length

}

else

return "is not object"

}

console.log(lengthOfObject(student))