1. Compare the last digit of two parameters in a function and output true if they are the same.
2. What is the output of the following code

var arr1 = "john".split('');

var arr2 = arr1.reverse();

var arr3 = "jones".split('');

arr2.push(arr3);

console.log("array 1: length=" + arr1.length + " last=" + arr1.slice(-1));

console.log("array 2: length=" + arr2.length + " last=" + arr2.slice(-1));

o/p:

array 1: length=4 last=j,o,h,

array 2: length=4 last=n,h,o

1. Write code that explains the proper and true meaning of closures.

function setLocation(city) {

var country = "France";

function printLocation() {

console.log("You are in " + city + ", " + country);

}

printLocation();

}

setLocation ("Paris");

1. What is the best way to avoid stack overflow, explain with code.

Asynchronous programming

function now() {

return 21;

}

function later() {

answer = answer \* 2;

console.log( "Meaning of life:", answer );

}

var answer = now();

setTimeout( later, 1000 );

1. What is the problem with the following code and write code to fix it.

function MyClass() {

this.a = 10;

this.do = function() {

http.get('blablabla', function(data) {

this.a = data.new\_a;

});

};

}

1. Write a function that takes two objects as parameters and returns true if the object are the same / equal.
2. Which one of the following are true or false?

* Is 'false' is false?
* Is ' ' is false?
* What about {}?
* What about new String('')?
* Boolean(function(){})

1. What is the output of the following code

var a = 1;

function b() {

a = 10;

return;

function a() {}

}

b();

console.log(a);

o/p:1

1. What is the output of the following code

var myObject = {

price: 20.99,

get\_price : function() {

return this.price;

}

};

var customObject = Object.create(myObject);

customObject.price = 19.99;

delete customObject.price;

console.log(customObject.get\_price())

o/p:20.99

1. Write code to clearly explain pass by reference and pass by value in JavaScript.

function passbyvalue(a,b){

sum=a+b;

return sum;

}

console.log(passbyvalue(10,20));

function ref(a,b){

sum=a+b;

return sum;

}

var a=4,b=5;

console.log(ref(a,b));

var arr=["xyz","pqrs"];

function name(arr){}

console.log(name(arr[1]));

name (arr);

1. Write a function that takes two string parameters and returns true if one of the parameter is a substring of the other string parameter.
2. Write code that demonstrate the use of IIFE.

var today = new Date();

var currentTime = today.toLocaleTimeString();

console.log(currentTime);

})();

console.log(currentTime);

1. In which sequence, will the following code run

doA( function(){

doB();

doC( function(){

doD();

} )

doE();

} );

doF();

B-D-C-E-A-F

1. Write a recursion based solution to count vowels in a given string.
2. Implement functions add, sub, mul and div with the signature func((num1, num2, callback(err, data))