Question 6.

var counter =0;

const count =(function(){

return{

add : function(){

counter+=1;

},

reset : function(){

counter=0;

}

}

})();

Question 7.

A **counter** is a free variable according question number 6.

**Free variables** are simply the **variables** that are neither locally declared nor passed as parameter. Source : In computer programming, the term **free variable** refers to **variables** used in a function that are not local **variables** nor parameters of that function.

Question 8

Var make\_adder = function( inc ){

Return counter += inc;

}

Question 9.

Solving the Closure Bug with IIFE

Namespace protection using module

Eg. (function() {

//code

})();

Question 10.

const employee = function () {

let name;

let age;

let salary;

function setName (newName) {

name=newName;

}

function setAge (newAge) {

age=newAge;

}

function setSalary (newSalary) {

salary=newSalary;

}

function getName () {

return name;

}

function getAge () {

return age;

}

function getSalary () {

return salary;

}

function increaseSlary (percentage) {

incsalary=getSalary();

update=incsalary+incsalary\*percentage;

setSalary(update);

}

function increamentAge () {

upadateAge=getAge()+1;

setAge(upadateAge);

}

return {

empAge: setName,

empSsalary: setAge,

empName: setSalary,

updatesalary: increaseSlary,

updateage: increamentAge

}

}

Question 11.

employee.extends=function setAddress(newAddress){

var address;

address=newAddress;

};

employee.extends=function getAddress(){

return address;

}