|  |
| --- |
| Task 6 |
|  |  | const countModule = function(){ |
|  |  | let counter = 0; |
|  |  | function add(){ |
|  |  | counter+=1; |
|  |  | } |
|  |  | function reset(){ |
|  |  | counter = 0; |
|  |  | } |
|  |  | return{ |
|  |  | add: function(){ |
|  |  | add(); |
|  |  | }, |
|  |  | reset: function(){ |
|  |  | reset(); |
|  |  | }, |
|  |  | value: function(){ |
|  |  | return counter; |
|  |  | } |
|  |  | } |
|  |  | } |
|  |  |  |
|  |  |  |
|  |  | Task 7 |
|  |  | - 'counter' is a free variable. |
|  |  | - Free variable is a variable that is used in the function, which is not the local parameter nor parameters of that function. |
|  |  |  |
|  |  |  |
|  |  | Task 8 |
|  |  | const countModule = function(){ |
|  |  | let counter = 0; |
|  |  | function add(){ |
|  |  | counter+=1; |
|  |  | } |
|  |  | function reset(){ |
|  |  | counter=0; |
|  |  | } |
|  |  | function makeAdder(inc){ |
|  |  | for(let i=0;i<inc;i++){ |
|  |  | return add(); |
|  |  | } |
|  |  | } |
|  |  | return{ |
|  |  | add: function(){ |
|  |  | add(); |
|  |  | }, |
|  |  | reset: function(){ |
|  |  | reset(); |
|  |  | }, |
|  |  | makeAdder: function(inc){ |
|  |  | for(let i=0;i<inc;i++){ |
|  |  | add(); |
|  |  | } |
|  |  |  |
|  |  | }, |
|  |  | value: function(){ |
|  |  | return counter; |
|  |  | } |
|  |  | } |
|  |  | } |
|  |  |  |
|  |  |  |
|  |  | Task 9 |
|  |  | - The solution is the "Module Pattern". Because by using Module Pattern, we can protect our code and avoid globals. |
|  |  | Module Pattern provides privacy thanks to closure. |
|  |  |  |
|  |  | (function(params) { |
|  |  | //here we'll put the JS code |
|  |  | statements; |
|  |  | }(params)); |
|  |  |  |
|  |  |  |
|  |  | Task 10 |
|  |  | const Employee = (function(){ |
|  |  | let name; |
|  |  | let age; |
|  |  | let salary; |
|  |  |  |
|  |  | const getAge = function(){ |
|  |  | return age; |
|  |  | }; |
|  |  | const getSalary = function(){ |
|  |  | return salary; |
|  |  | }; |
|  |  | const getName = function(){ |
|  |  | return name; |
|  |  | }; |
|  |  | const setAge = function(newAge){ |
|  |  | age = newAge; |
|  |  | }; |
|  |  | const setSalary = function(newSalary){ |
|  |  | salary = newSalary; |
|  |  | }; |
|  |  | const setName = function(newName){ |
|  |  | name = newName; |
|  |  | }; |
|  |  | const increaseSalary = function(percentage){ |
|  |  | salary = getSaraly + getSaraly()\*percentage/100; |
|  |  | }; |
|  |  | const incrementAge = function(){ |
|  |  | age = getAge() + 1; |
|  |  | }; |
|  |  | return{ |
|  |  | setAge: setAge, |
|  |  | setSalary: setSalary, |
|  |  | setName: setName, |
|  |  | increaseSalary: increaseSalary, |
|  |  | incrementAge: incrementAge |
|  |  | }; |
|  |  | })(); |
|  |  |  |
|  |  |  |
|  |  | Task 11 |
|  |  | Employee.setAddress = function(newAddress){ |
|  |  | address = newAddress; |
|  |  | } |
|  |  |  |
|  |  | Employee.getAddress = function(){ |
|  |  | return address; |
|  |  | } |