Scope Exercise Solution

1. 10889101
2. Methods: are actions that can be performed on objects. They are defined inside an object.

Function: is block of code that performs a certain action when called by name. They are standalone, but not part of an object.

1. In Java, this refers to the current instance object on which the method is executed.
2. In JavaScript this always refers to the “owner” of the function we're executing, or rather, to the object that a function is a method of.
3. In a constructor function this does not have a value. It is a substitute for the new object. The value of this will become the new object when a new object is created.
4. It refers to object y
5. Free variable is a variable that is used by a function that is neither its parameter nor its local variable.

**const** myObject={

name: "fred",

major: "music",

myFunction: **function**(a, b){

if(a==b){return a\*a + b\*b} *// square of what??*

else if(a<b) {return a}

else{return b}

}

}

**function** Employee(ename, esalary, eposition){

this.name= ename,

this.salary= esalary,

this.position= eposition

}

**const** emp1= new Employee("Musie Yemane", 200000, "President");

**const** emp2= new Employee("Freedom Araia", 100000, "Programmer");

**const** emp3= new Employee("Surafael Yemane", 150000, "Manager");

10.

**function** product(){

**let** prod=1;

for(**let** i=0; i<arguments.length;i++){

prod \*= arguments[i];

}

return prod;

}

**11.**

**const** max = (a, b, c) **=>** {

if(a>b && a>c){return a;}

else if(b>c){return b;}

else{return c;}

};