Javascript Module Exercise

1, 1

5

Error cannot access b

Undefined

10

1

2, Global scope is variables/functions defined in the global/window object not enclosed by a function. And local scope is the scope defined inside a function.

3, a, no

B, yes

C, no

D, yes

E, yes

4, 81

25

5, 1

6,

var module = (function () {

var counter = 0;

return {

add: function () {

return counter += 1;

},

Reset: function() {

return cunter = 0;

}

})();

7, counter is the free variable

Free variable is a variable defined in the closure so an inner function can only modify it

8,

var module = (function () {

var counter = 0;

return {

add: function (size) {

return counter += size;

},

Reset: function() {

return cunter = 0;

}

add5 = module.add(5);

add5(); add5(); add5();

, add7 = module.add(7);

add7(); add7(); add7();

9, enclosing them all with a common object using modules will take all the name from a global namespace to the specific scope of the object function.

10, var module = ( function () {

var \_name;

var \_age;

var \_salary;

setAge: function (newAge) {

this.\_age = newAge;

}

setSalary: function(newSalary) {

this.\_salary = newSalary;

}

setName: function(newname) {

this.\_name = newname;

}

\_getAge: function()) {

return \_age;

}

\_getSalary: function() {

return \_salary

}

\_getName: function() {

return \_name

}

increaseSalary: function(percentage) {

return \_getSalary() \* percentage;

}

incrementAge: function() {

return \_get

}

Return {

Setage : setAge;

Setsalary: setSalary;

Setname: setName;

raiseSalary : increaseSaary;

raiseAge : incrementAge;

}

})();

11, var module = ( function () {

var \_name;

var \_age;

var \_salary;

\_getAge: function()) {

return \_age;

}

\_getSalary: function() {

return \_salary

}

\_getName: function() {

return \_name

}

return {

setAge: function (newAge) {

this.\_age = newAge;

}

setSalary: function(newSalary) {

this.\_salary = newSalary;

}

setName: function(newname) {

this.\_name = newname;

}

increaseSalary: function(percentage) {

return \_getSalary() \* percentage;

}

incrementAge: function() {

return \_get

}

}

})();

12, var module = ( function () {

var \_name;

var \_age;

var \_salary;

\_getAge: function()) {

return \_age;

}

\_getSalary: function() {

return \_salary

}

\_getName: function() {

return \_name

}

Var myObject = {};

myObject .setAge: function (newAge) {

this.\_age = newAge;

}

myObject .setSalary: function(newSalary) {

this.\_salary = newSalary;

}

myObject .setName: function(newname) {

this.\_name = newname;

}

myObject .increaseSalary: function(percentage) {

return \_getSalary() \* percentage;

}

myObject.incrementAge: function() {

return \_get

}

return {

myObject;

}

})();

13, var module2 = (function(module) {

Var \_publicAddress;

Return {

setAddress: function(address) {

\_publicAddress = address;

}

getAddress: function() {

return \_publicAddress;

}

}

}(();

14, output is -> Error Hattori

15,