```
1)
1,8,8,9,10,1
2)
Every line of code is defined inside the global scope unless its inside a function, as every function has
its own local scope.
3)
no, yes, no, yes, yes
4)
81, 25
5)
10
6)
var counter = (function () {
var privateCounter = 0;
return {
add: function () {
privateCounter++;
reset: function () {
privateCounter = 0;
value: function () {
return privateCounter;
privateCounter is the free variable.
For a closure function, its the variable that's not one of its parameters or local variables.
var counter = (function () {
var privateCounter = 0;
function make_addr(inc) {
return function () {
privateCounter = privateCounter + inc;
```

return {

add: function () { privateCounter++;

```
reset: function () {
privateCounter = 0;
add5: make_addr(5),
add7: make_addr(7),
value: function () {
 eturn privateCounter;
9)
we can put all of these functions and variables in a module or an IIFE.
10)
var Employee = (function () {
var name = "";
var age = 0;
var salary = 0;
function getAge() {
return age;
function getSalary() {
return salary;
function getName() {
return name;
function setAge(newAge) {
age = newAge;
function setSalary(newSalary) {
salary = newSalary;
function setName(newName) {
name = newName;
function increaseSalary(percentage) {
salary = getSalary + getSalary * (percentage / 100);
function incrementAge() {
age = getAge++;
return {
setAge,
setSalary,
```

```
setName,
increaseSalary,
incrementAge,
})();
11)
var Employee = (function () {
var name = "";
var age = 0;
var salary = 0;
function getAge() {
return age;
function getSalary() {
return salary;
function getName() {
return name;
return {
setAge: function (newAge) {
age = newAge;
setSalary: function (newSalary) {
salary = newSalary;
setName: function (newName) {
name = newName;
increaseSalary: function (percentage) {
salary = getSalary + getSalary * (percentage / 100);
incrementAge: function () {
age = getAge++;
12)
var Employee = (function () {
var name = "";
var age = 0;
var salary = 0;
```

```
let myObject = {};
myObject.getAge = function () {
return age;
myObject.getSalary = function () {
return salary;
myObject.getName = function () {
return name;
myObject.setAge = function (newAge) {
age = newAge;
myObject.setSalary = function (newSalary) {
salary = newSalary;
myObject.setName = function (newName) {
name = newName;
myObject.increaseSalary = function (percentage) {
salary = getSalary + getSalary * (percentage / 100);
myObject.incrementAge = function () {
age = getAge++;
return myObject;
})();
13)
Employee.extention = {
address: "",
setAddress: function (newAddress) {
this.address = newAddress;
getAddress: function () {
return this.address;
14)
"Error: Hattori"
15)
"Success: Hattori"
```

16)
"success"

"error"