Lab 6

```
x = 1;
 var a = 5;
 var b = 10;
 var c = function(a, b, c) {
                  document.write(x);
                  document.write(a);
                   var f = function(a, b, c) {
                                     b = a;
                                      document.write(b);
                                     b = c;
                                     var x = 5;
                   f(a,b,c);
                   document.write(b);
                  var x = 10;
c(8,9,10);
document.write(b);
document.write(x);
```

Code 1

- 1. It could be: Undefined1889101
- 2. Lexical environment diagram:

```
Global EC: Creation LE {a : undefined, b : undefined, c: undefined } tdz{}

Global EC: Execution LE{x:1, a:5, b:10, c:fn}

Outer: null;

C FEC Creation LE {arguments{0:8, 1:9, 2: 10, length: 3}, f:undefined, x:undefined, a:8, b:9, c:10} tdz{}

C FEC Execution LE{ write(x=undefined), write (a=8), f:fn}

Outer: global;
```

```
F FEC Creation LE{arguments{0: 8, 1:9, 2: 10, length: 3}, x:undefined,
            a:8, b:9, c:10} tdz{}
            F FEC Execution LE\{b:8, write (b=8), b:8,10, x:5\};
            Outer: C;
      C FEC Creation LE {arguments{0:8, 1:9, 2: 10, length: 3}, f:undefined,
      x:undefined, a:8, b:9, c:10} tdz{}
      C FEC Execution LE{print(x=undefined,) print(a=8), f:fn, write(b=9), x:10}
      Outer: global;
Global EC: Creation LE {a : undefined, b : undefined, c: undefined } tdz{}
Global EC: Execution LE{x:1, a:5, b:10, c:fn, write(b=10), write(x=1)}
Outer: null;
 var x = 9;
 function myFunction() {
       return x * x;
 document.write(myFunction());
 document.write(myFunction());
Code 2
   1. It could be: 8125
   2. Lexical environment diagram:
Global EC: Creation LE{x: undefined, myFunction:fn} tdz{}
```

Global EC: Execution LE{x: 9}}

Outer: null

myFunction FEC: Creation LE{arguments{length:0}} myFunction FEC: Execution LE{} Outer: Global Global EC: Creation LE{x: undefined, myFunction:fn } tdz{} Global EC: Execution LE(x: 9), write(x*x=81), x:95 Outer: null myFunction FEC: Creation LE{arguments{length:0}} myFunction FEC: Execution LE{} Outer: Global Global EC: Creation LE{x: undefined, myFunction:fn } tdz{} Global EC: Execution LE $\{x: 9\}$, write $\{x*x=81\}$, x:9, write $\{x*x=25\}$ Outer: null

```
var foo = 1;
function bar() {
         if (!foo) {
            var foo = 10;
         }
         alert(foo);
}
bar();
```

Code 3

1. It could be: 10

2. Lexical environment diagram:

Global EC: Creation LE{foo: undefined, bar:fn} tdz{}

Global EC: Execution LE{foo: 1}

Outer: null;

bar FEC: Creation LE{arguments{length:0}, foo: undefined} tdz{}

bar FEC: Execution LE{foo: 10, alert(foo=10)}