



Lab 6 -> Answers

1. What will be printed by the following code snippets (answer without running it)?
2. Draw the lexical environment diagram for each code snippet.

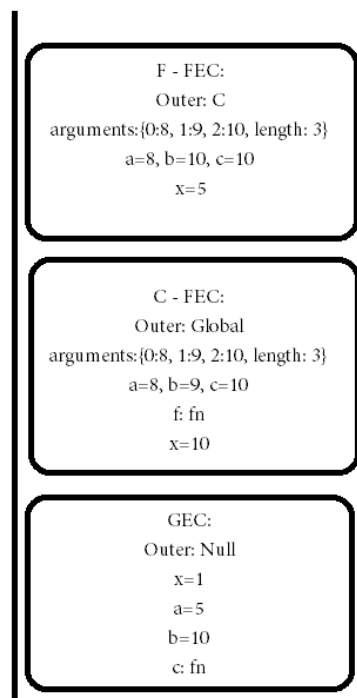
Code 1:

```
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);
}
```

1) To be printed → Undefined 8 8 2 9 10 1

2) Lexical environment diagram →



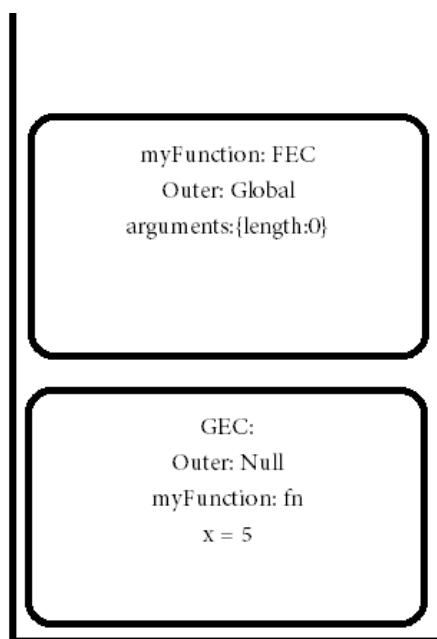
Code 2:

```
var x = 9;
function myFunction() {
    return x * x;
}
document.write(myFunction());
x = 5;
document.write(myFunction());
```

1) To be printed

→ 81 25

2) Lexical environment diagram →



Code 3:

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

1) To be printed

→ 10

2) Lexical environment diagram →

