

W2D2 Homework

1. What is the output of the following JavaScript (without running it)

```
1  x = 1;
2  var a = 5;
3  var b = 10;
4  var c = function(a, b, c) {
5      console.log(x); //1
6      console.log(a); //8
7      var f = function(a, b, c) {
8          b = a;
9          console.log(b); //8
10         b = c;
11         var x = 5;
12     }
13     f(a, b, c);
14     console.log(b); //9
15     var x = 10;
16 }
17 c(8,9,10);
18 console.log(b); //10
19 console.log(x); //1
```

2. Define *Global Scope* and *Local Scope* in JavaScript

Global variables are those declared outside of a block. Local variables are those declared inside of a block.

3. Consider the following JavaScript code:

```
1  // Scope A
2  function xFunc() {
3      // Scope B
4      function yFunc() {
5          // Scope C
6      }
7  }
```

- Do statements in Scope A have access to variables defined in Scope B and C? No
- Do statements in Scope B have access to variables defined in Scope A? yes
- Do statements in Scope B have access to variables defined in Scope C? No
- Do statements in Scope C have access to variables defined in Scope A? yes
- Do statements in Scope C have access to variables defined in Scope B? yes

4. What is the output is of the following JavaScript (without running it)

```
1  var x = 9;
2  function myFunction() {
3      return x * x;
4  }
5  console.log(myFunction()); 81
6  x = 5;
7  console.log(myFunction()); 25
```

5. What is the output of the following alert (without running it)

```
1  var foo = 1;
2  function bar() {
3      if (!foo) {
4          var foo = 10;
5      }
6      alert(foo); //1
7  }
8  bar();
```