

Front-end development: Tricky Parts

JavaScript – closures

The following exercise contains the following subjects:

closures

Instructions

Without running the code below, explain in your own words what the result of each block of code will be and why.

```
(function immediateA(a) {
  return (function immediateB(b) {
    console.log(a);
  })(1);
})(0);
```

```
let count = 0;
(function immediate() {
   if (count === 0) {
      let count = 1;
      console.log(count);
   }
   console.log(count);
})();
```

```
var module = (function () {
 var foo = 'foo'
 function addToFoo (bam) {
    foo = bam;
   return foo;
 var publicInterface = {
    bar: function () {
     return 'bar';
    },
  bam: function () {
      return addToFoo('bam')
    }
  return publicInterface
})()
console.log(module.bar())
console.log(module.bam())
```

```
function createIncrement() {
   let count = 0;
   function increment() {
      count++;
   }
   let message = `Count is ${count}`;
   function log() {
      console.log(message);
   }
   return [increment, log];
}
const [increment, log] = createIncrement();
increment();
increment();
increment();
increment();
log();
```

```
var x = 10;
console.log(x);
if (true) {
    (function() {
       var x = 20;
       console.log(x);
    })();
}
console.log(x);
```

```
var x = 10;
console.log(x);
function test(){
  var x = 20;
  console.log(x);
  if (x > 10) {
    let x = 30;
    console.log(x);
  }
  console.log(x);
}
test();
console.log(x);
```

```
var x;
x = 10;
function test(){
   var x;
   if (x > 20) {
      x = 50;
   }
   console.log(x);
}
test();
```

```
function test(){
    var x, y;
    if (false) {
        x = 50;
    }
    console.log(x);
    console.log(y);
    y = 100;
    console.log(y);
}
test();
```

```
function test(){
  foo();
  bar();
  function foo(){
    console.log('foo');
  }
  var bar = function() {
    console.log('bar');
  }
}
test();
```