JavaScript Output-Based Questions

```
1.
let a = 10;
(function () {
    console.log(a);
   let a = 20;
})();
2.
const obj = {
   a: 1,
    b: function () {
       console.log(this.a);
    }
};
const a = 100;
obj.b.call(null);
3.
function foo() {
    return
    {
        bar: "baz"
    };
}
console.log(typeof foo());
4.
console.log([] + []);
console.log([] + {});
console.log({} + []);
```

```
function makeCounter() {
    let count = 0;
    return function () {
        return count++;
    };
}
const counter1 = makeCounter();
const counter2 = makeCounter();
console.log(counter1());
console.log(counter1());
console.log(counter2());
6.
let x = 5;
const y = x++;
console.log(x);
console.log(y);
7.
const obj = {
    message: 'Hello',
    greet: () => {
        console.log(this.message);
    }
};
obj.greet();
8.
(async function() {
    await Promise.resolve();
    console.log(1);
})();
console.log(2);
```

```
9.
let arr = [10, 20, 30];
arr[100] = 1000;
console.log(arr.length);
10.
var x = 21;
var fun = function () {
    console.log(x);
    var x = 20;
};
fun();
11.
let a = { x: 1 };
let b = a;
a.x = 2;
a = \{ x: 3 \};
console.log(b.x);
12.
let a = 1;
    let a = 2;
    {
        let a = 3;
        console.log(a);
    }
    console.log(a);
}
console.log(a);
13.
for (var i = 0; i < 3; i++) {
```

```
setTimeout(() => console.log(i), 100);
}
14.
console.log(typeof null);
console.log(null instanceof Object);
15.
const func = (function() {
    let counter = 0;
    return function() {
        return ++counter;
    }
})();
console.log(func());
console.log(func());
16.
let obj = { name: "JS" };
Object.freeze(obj);
obj.name = "JavaScript";
console.log(obj.name);
17.
let x = NaN;
console.log(x === x);
18.
function A() {
    this.name = "A";
    return { name: "B" };
}
const obj = new A();
```

```
console.log(obj.name);
19.
function* gen() {
    yield 1;
    yield 2;
    yield 3;
}
const g = gen();
console.log(g.next().value);
console.log(g.next().value);
console.log(g.next().value);
20.
let num = 0;
console.log(num++);
console.log(++num);
21.
console.log(1 < 2 < 3);
console.log(3 > 2 > 1);
22.
(function() {
    var a = b = 5;
})();
console.log(typeof b);
console.log(typeof a);
23.
const a = [1, 2, 3];
a.length = 0;
console.log(a[0]);
```

```
24.
function Person() {}
Person.prototype.sayHi = () => {
    console.log("Hi");
};
const p = new Person();
p.sayHi();
25.
let obj = {
    get value() {
        return 42;
    }
};
console.log(obj.value);
26.
let count = 0;
const intervalId = setInterval(() => {
    console.log(count++);
    if (count > 2) clearInterval(intervalId);
}, 10);
27.
let a = [1, 2];
let b = [1, 2];
console.log(a == b);
console.log(a === b);
28.
let x = 0;
```

```
if (true) {
   let x = 1;
    if (true) {
        let x = 2;
       console.log(x);
    console.log(x);
}
console.log(x);
29.
const x = "5";
const y = 5;
console.log(x == y);
console.log(x === y);
30.
let obj = {
   name: "John",
    getName: function () {
       return this.name;
    }
};
let getName = obj.getName;
console.log(getName());
```