

JS Tricky Interview Questions

1. What will be the output and why?

```
console.log(a);  
var a = 10;  
function foo() {  
  console.log(a);  
  var a = 20;  
}  
foo();  
console.log(a);
```

2. What will be the output? How can you modify the code so that it logs 0, 1, 2, 3, 4 instead?

```
for (var i = 0; i < 5; i++) {  
  setTimeout(function() {  
    console.log(i);  
  }, 1000);  
}
```

3. What will be the order of the logs and why?

```
console.log('Start');  
setTimeout(() => {  
  console.log('Middle');  
}, 0);
```

```
console.log('End');
```

4. What will be the output and why?

```
let arr = [1, 2, 3];  
arr[10] = 5;  
console.log(arr.length);  
console.log(arr);
```

5. What will be the output of these expressions and why?

```
console.log([] + []);  
console.log([] + {});  
console.log({} + []);
```

6. What will be the output and why? How can you compare the content of two objects?

```
let a = { foo: 'bar' };  
let b = { foo: 'bar' };  
console.log(a == b);  
console.log(a === b);
```

7. What will happen when you run this code and why?

```
foo();  
  
var foo = function() {  
    console.log('Function expression');  
};
```

8. What will be the output and why?

```
const person = {
  name: 'Alice',
  age: 25,
  address: {
    city: 'Wonderland'
  }
};

const { name, address: { city }, country = 'Unknown' } = person;
console.log(name, city, country);
```

9. What will be the output and why?

```
const promise = new Promise((resolve, reject) => {
  console.log('Promise started');
  resolve('Success');
});
```

```
promise.then(res => {
  console.log(res);
});
```

```
console.log('Promise created');
```

10. What will be the output and why?

```
(function() {
```

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