Closures

Deadline

Apr 15, 2021, 11:59 PM

Lecture

100.0%

Score 160.00/160

▶ Revisiting Old Concepts - Window O...

▶ Revisiting Old Concepts - Scopes

Window Object ●   10.0/10

Local Scope ●   10.0/10

What is Output ●   10.0/10

What is the Expected Output ●   10.0/10

What is the Expected Output ●   10.0/10

Window Object

Send Feedback

What will the following code print in the console?

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

Options

🔘 10 20 10 ✔

⚪ 10 10 10

⚪ 10 20 20

⚪ 20 20 20

⚪ None of the Above

Correct Answer

Solution Description

‹ PREVIOUS › NEXT ⟳ SUBMIT ⌨

Closures

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Revisiting Old Concepts - Scopes

Window Object ●   10.0/10

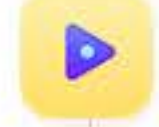Local Scope ●   10.0/10

What is Output ●   10.0/10

What is the Expected Output ●   10.0/10

What is the Expected Output ●   10.0/10

Avoid Global Variables

IIFE

Global Scope ●   10.0/10

Local Scope

Send Feedback

What will the following code print in the console?

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

Options

○ 10 20

○ 20

○ 10 Undefined

● 20 Error: a is not defined ✔

Correct Answer

Solution Description

‹ PREVIOUS   › NEXT   ↻ SUBMIT

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Closures

Deadline
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What is Output

Send Feedback

Consider the following code snippet.

```
var a = 10;
console.log(a);
var a =20;
console.log(a);
```

What will be the expected output?

Options

🔴 10 20 ✓

◯ 10 10

◯ 20 20

◯ Error: Identifier 'a' has already been declared

Correct Answer

Solution Description

SUBMIT

Closures

Deadline
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Local Scope

What is Output ●   10.0/10

What is the Expected Output ●   10.0/10

What is the Expected Output ●   10.0/10

Avoid Global Variables

IIFE

Global Scope ●   10.0/10

IIFE ●   10.0/10

Let vs IIFE

Closures

What is the Expected Output

Send Feedback

What will the following code print in console?

```
var a =10;
var b;
function outer(){
    var b = 30;
    function inner(a){
        var a = 30;
        console.log(a++ ,b++)
    }
    console.log(a, ++b);
    inner(a);
}
outer();
console.log(a++,b++);
```

i.   20 31
     30 31
     10
ii.   20 30
     30 30
     10
iii.   30 20
     30 30

Options

   ○   i.

   ○   ii.

   ○   iii.

   ○   iv.

   ●   v. ✔

   ○   vi.

Correct Answer

< PREVIOUS   > NEXT   SUBMIT

ASK/VIEW DOUBT

Closures

Deadline

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What is Output

What is the Expected Output •   10.0/10

What is the Expected Output •   10.0/10

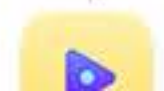Avoid Global Variables

IIFE

Global Scope •   10.0/10

IIFE •   10.0/10

Let vs IIFE

Closures

More on Closures

What is the Expected Output

Send Feedback

What will the following code print in console?

```
var a =10;
function outer(){
    var a = 20;
    var b = 30;
    function inner(a){
        var a = 30;
        console.log(a++ ,b++)
    }
    console.log(a, ++b);
    inner(a);
}
outer();
console.log(a++);
```

i. 20 31
    30 31
    10
ii. 20 30
    30 30
    10
iii. 30 20

Options

i. ✔

ii.

iii.

iv.

v.

vi.

Correct Answer

< PREVIOUS > NEXT SUBMIT

Closures

Deadline

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Avoid Global Variables

IIFE

Global Scope ●   10.0/10

IIFE ●   10.0/10

Let vs IIFE

Closures

More on Closures

Scoping in JavaScript ●   10.0/10

What is the Expected Output ●   10.0/10

Closure In JavaScript ●   10.0/10

Global Scope

Send Feedback

What is the expected output?

Where this is the HTML code
```
<html>
<body>
<script src="script1.js"></script>
<script src="script2.js"></script>
</body>
</html>
```
This is script1.

```
var a = 10;
setTimeout(function(){
console.log(a);
},1000);
```

This is script2.

```
var a = 20;
console.log(a);
```

Options

○ 10 20

○ 10 10

● 20 20 ✔

○ 20 10

Correct Answer

‹ PREVIOUS   › NEXT   ↻ SUBMIT

Closures

Deadline

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Global Scope ●   10.0/10

IIFE ●   10.0/10

Let vs IIFE

Closures

More on Closures

Scoping in JavaScript ●   10.0/10

What is the Expected Output ●   10.0/10

Closure In JavaScript ●   10.0/10

Closures and let

IIFE

Send Feedback

What will the following statements print in the console?

```
var a = (function(){
    return typeof arguments;
})();
console.log(a);
```

Options

🔴 object ✔

○ array

○ arguments

○ undefined

Correct Answer

< PREVIOUS   > NEXT   ⟳ SUBMIT

Closures

Deadline

Apr 15, 2021, 11:59 PM

Closures

▶ More on Closures

🧩 Scoping in JavaScript ●   10.0/10

🧩 What is the Expected Output ●   10.0/10

🧩 Closure In JavaScript ●   10.0/10

▶ Closures and let

▶ Let in for loops

🧩 var in Loop ●   10.0/10

🧩 let in Loop ●   10.0/10

Scoping in JavaScript

Send Feedback

What kind of scoping does JavaScript use?

Options

○ Literal

● Lexical ✔

○ Segmental

○ Segmental

Correct Answer

Solution Description

< PREVIOUS   > NEXT   ⟳ SUBMIT

Closures

Deadline
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More on Closures

Scoping in JavaScript • 10.0/10

What is the Expected Output • 10.0/10

Closure In JavaScript • 10.0/10

Closures and let

Let in for loops

var in Loop • 10.0/10

let in Loop • 10.0/10

Arrow Functions

What is the Expected Output

Send Feedback

What will the following code snippet print?

```
function Adder(x) {
  return function(y) {
    return x + y;
  };
}
var add5 = Adder(5);
var add10 = Adder(10);
console.log(add5(2));
console.log(add10(2));
```

Options

● 7 12 ✓

○ 5 15

○ 5 10

○ 7 15

Correct Answer

Solution Description

< PREVIOUS   > NEXT   ⟳ SUBMIT

Establishing secure connection...

Closures

Deadline
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Scoping in JavaScript •

What is the Expected Output •   10.0/10

Closure In JavaScript •   10.0/10

Closures and let

Let in for loops

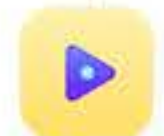var in Loop •   10.0/10

let in Loop •   10.0/10

Arrow Functions

Bindings in Arrow Function

Arrow Function Declaration •   10.0/10

Closure In JavaScript

Send Feedback

What is the expected output?

```
var add = (function () {
   var counter = 0;
   return function () {counter += 1; return counter}
})();
console.log(add());
console.log(add());
console.log(add());
```

Options

○ 0 0 0

○ 0 1 1

○ 0 1 2

● 1 2 3 ✔

Correct Answer

Solution Description
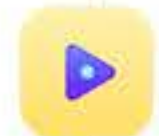
< PREVIOUS   > NEXT   ⟳ SUBMIT

Closures

Deadline
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Closures and let

Let in for loops

var in Loop ●   10.0/10

let in Loop ●   10.0/10

Arrow Functions

Bindings in Arrow Function

Arrow Function Declaration ●   10.0/10

Arrow Function ●   10.0/10

What is the Expected Output ●   10.0/10

var in Loop

Send Feedback

What will the following code print in console?

```
for(var a = 1; a < 5; a++){
setTimeout(function(){
console.log(a)}, 1000);
}
```

Options

- ○ 1 2 3 4 5
- ○ 1 2 3 4
- ○ 1 1 1 1
- ● 5 5 5 5 ✓
- ○ None of the Above

Correct Answer

< PREVIOUS   > NEXT   ↻ SUBMIT

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Closures

Deadline

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Let in for loops

var in Loop ●   10.0/10

let in Loop ●   10.0/10

Arrow Functions

Bindings in Arrow Function

Arrow Function Declaration ●   10.0/10

Arrow Function ●   10.0/10

What is the Expected Output ●   10.0/10

What is the Expected Output ●   10.0/10

Notes: Closures

---

let in Loop

Send Feedback

What will the following code print in console?

```
for(let a = 1; a < 5; a++){
    setTimeout(function(){
    console.log(a)}, 1000);
}
```

Options

●   1 2 3 4 ✔

○   1 1 1 1

○   5 5 5 5

○   None of the Above

Correct Answer
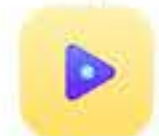
< PREVIOUS   > NEXT   ⟳ SUBMIT

Closures

Deadline

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Arrow Functions

Bindings in Arrow Function

Arrow Function Declaration ● 10.0/10

Arrow Function ● 10.0/10

What is the Expected Output ● 10.0/10

What is the Expected Output ● 10.0/10

Notes: Closures

Assignment

100.0%

Score 70.00/70

Submission Instructions

Arrow Function Declaration

Send Feedback

Is the following function declaration allowed in JavaScript?

```
var func = (
  a,
  b,
  c
) => (
  1
);
```

Options

● Yes ✔

○ No

Correct Answer

PREVIOUS   NEXT   SUBMIT

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Closures

Deadline

Apr 15, 2021, 11:59 PM

Bindings in Arrow Function

Arrow Function Declaration ●   10.0/10

Arrow Function ●   10.0/10

What is the Expected Output ●   10.0/10

What is the Expected Output ●   10.0/10

Notes: Closures

Assignment

100.0%

Score 70.00/70

Submission Instructions

Block Scope ●   10.0/10

Arrow Function

Send Feedback

What will the expected output when we run the following code in the console?

```
console.log((function(x, f = () => x) {
  var x;
  var y = x;
  x = 2;
  return [x, y, f()];
})(1));
```

Options

🔴 2, 1, 1 ✔

○ 1, 1, 2

○ 2, 1

○ 1, 1

Correct Answer

‹ PREVIOUS   › NEXT   ↻ SUBMIT   ⌨

Closures

Deadline
Apr 15, 2021, 11:59 PM

Arrow Function Declaration ✓

Arrow Function ●   10.0/10

What is the Expected Output ●   10.0/10

What is the Expected Output ●   10.0/10

Notes: Closures

Assignment

100.0%

Score 70.00/70

Submission Instructions

Block Scope ●   10.0/10

let ●   10.0/10

What is the Expected Output

Send Feedback

What will the following code print in the console?

```
let user = {
  firstname: 'John',
  lastname: 'Doe',
  getFullName: function(){
    return function(){
      console.log(`The full name of the user is
${this.firstname} ${this.lastname} `);
    }
  }
}
user.getFullName()();
```

Options

○ The full name of the user is ${this.firstname} ${this.las

● The full name of the user is undefined undefined ✔

○ The full name of the user is John Doe

○ None of the Above

Correct Answer

Solution Description

In the given example, the function which is getting returned i.e.

```
  return function(){
    console.log(`The full name of the user is
${this.firstname} ${this.lastname} `);
  }
```

Is a unbounded function (An unbound function is a function that is not bound to an object) So this in the above function refers to the global (window) object. Since unbound functions are implicitly bound to the global scope). And since no firstname and lastname variables were defined in the window environment, `${this.firstname} ${this.lastname}` prints undefined undefined.

⟨ PREVIOUS   ⟩ NEXT   ↻ SUBMIT

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Closures

Deadline
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Arrow Function

What is the Expected Output ●   10.0/10

What is the Expected Output ●   10.0/10

Notes: Closures

Assignment

100.0%

Score   70.00/70

Submission Instructions

Block Scope ●   10.0/10

let ●   10.0/10

What is the Expected Output ●   10.0/10

What is the Expected Output

Send Feedback

What will the following code print in the console?

```
let user = {
   firstname: 'John',
   lastname: 'Doe',
   getFullName: function(){
      return() => {
         console.log(`The full name of the user is
${this.firstname} ${this.lastname} `);
      }
   }
}
user.getFullName()();
```

Options

○ The full name of the user is ${this.firstname} ${this.las

○ The full name of the user is undefined undefined

● The full name of the user is John Doe ✔

○ None of the Above

Correct Answer

Solution Description
ES6 arrow functions can't be bound to a this keyword, so it will lexically go up a scope, and use the value of this in the scope in which it was defined.
Hence this refers to the user object in this case and thus ${this.firstname} ${this.lastname} will print John Doe.

PREVIOUS   NEXT   SUBMIT

Closures

Deadline

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100.0%

Score 70.00/70

Submission Instructions

Block Scope ●   10.0/10

let ●   10.0/10

What is the Expected Output ●   10.0/10

What is the Expected Output ●   10.0/10

IIFE ●   10.0/10

What is the Output ●   10.0/10

Arrow function ●   10.0/10

Block Scope

Send Feedback

What is the expected output?

```
{
  let message = "Hello";
  console.log(message);
}
console.log(message);
```

Options

○ Hello Hello

○ Hello undefined

● Hello Error: message is not defined ✔

○ None of the Above

Correct Answer

< PREVIOUS   > NEXT   ↻ SUBMIT

Waiting for www.clarity.ms...

Closures

Deadline

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100.0%

Score 70.00/70

Submission Instructions

Block Scope ●   10.0/10

let ●   10.0/10

What is the Expected Output ●   10.0/10

What is the Expected Output ●   10.0/10

IIFE ●   10.0/10

What is the Output ●   10.0/10

Arrow function ●   10.0/10

What is the Expected Output

Send Feedback

What is the expected output?

```
function makeArmy() {
  let shooters = [];
  let i = 0;
  while (i < 10) {
    let shooter = function() {
      console.log( i );
    };
    shooters.push(shooter);
    i++;
  }
  return shooters;
}
let army = makeArmy();
army[0]();
army[5]();
```

Options

○ 0 5

○ 0 0

○ 5 5

● 10 10 ✔

○ None of the Above

Correct Answer

PREVIOUS   NEXT   SUBMIT

Closures

Deadline
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100.0%

Score 70.00/70

Submission Instructions

Block Scope ●   10.0/10

let ●   10.0/10

What is the Expected Output ●   10.0/10

What is the Expected Output ●   10.0/10

IIFE ●   10.0/10

What is the Output ●   10.0/10

Arrow function ●   10.0/10

IIFE

Send Feedback

What will the following code snippet print in console?

```
var Sequence = (function sequenceIIFE() {
    var current = 0;
    return {
        getCurrentValue: function() {
            return current;
        },
        getNextValue: function() {
            current = current + 1;
            return current;
        }
    };
}());
console.log(Sequence.getNextValue());
console.log(Sequence.getNextValue());
console.log(Sequence.getCurrentValue());
```

Options

○ 0 0 0

○ 0 1 1

● 1 2 2 ✔

○ 1 1 2

○ None of the Above

Correct Answer

Solution Description

PREVIOUS   NEXT   SUBMIT

Closures

Deadline
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100.0%

Score 70.00/70

Submission Instructions

Block Scope ● 10.0/10

let ● 10.0/10

What is the Expected Output ● 10.0/10

What is the Expected Output ● 10.0/10

IIFE ● 10.0/10

What is the Output ● 10.0/10

Arrow function ● 10.0/10

What is the Output

Send Feedback

What will the following code print in the console?

```
let People = function(person, age) {
    this.person = person;
    this.age = age;
    this.info = function() {
        console.log(this);
        setTimeout(() => {
            console.log(this.person + " is " + this.age +
" years old");
        }, 3000);
    }
}
let person1 = new People('John', 21);
person1.info();
```

Options

○ window {postMessage: ƒ, blur: ƒ, focus: ƒ, close: ƒ, pa

○ window {postMessage: ƒ, blur: ƒ, focus: ƒ, close: ƒ, pa

● People {person: "John", age: 21, info: ƒ} John is 21 yea

○ None of the Above

Correct Answer

Solution Description

The statement 'let person1 = new People('John', 21);' will create a new People object and call it's constructor function. Which assigns value of person and age to the object and define the function info. The statement 'person1.info();' will invoke the function info of the person1 object. In function info 'console.log(this); ' this keyword refers to an object, that object which is executing the current bit of javascript code. After 3000ms setTieout() will print John is 21 years old.

❮ PREVIOUS   ❯ NEXT   ↻ SUBMIT

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Closures

Deadline

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100.0%

Score 70.00/70

Submission Instructions

Block Scope ●   10.0/10

let ●   10.0/10

What is the Expected Output ●   10.0/10

What is the Expected Output ●   10.0/10

IIFE ●   10.0/10

What is the Output ●   10.0/10

Arrow function ●   10.0/10

Arrow function

Send Feedback

What will the following function return?

```
var arguments = [1, 2, 3];
var arr = () => arguments[2];
arr();
function foo(n) {
  var f = () => arguments[0] + n;
  return f();
}
foo(3);
```

Options

○ 4

○ 5

● 6 ✓

○ 7

○ None of the Above

Correct Answer

‹ PREVIOUS   › NEXT   ○ SUBMIT