JavaScript Execution & Hoisting - Coding Assignment

Q1. What will be the output of the following code?

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

Your Output: undefined

Explain the Output in 1 line: it is defined with var and after console.log() ,hoisting and insislized

Q2. What will be the output of the following code?

console.log(a); let a = 10;

Your Output: error

Explain the Output in 1 line: it is defined with let and due to hoisting but not initilised which leads to error

Q3. What will be the output of the following code?

function test() { console.log('Hello'); } test();

Your Output: Hello

Explain the Output in 1 line: due to hoisting

Q4. What will be the output of the following code?

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

Your Output: undefined

Explain the Output in 1 line: due to hoisting of function which leds to hoisting but only declaration is hoisted of var variable

Q5. What will be the output of the following code?

var a = 5; function test() { var a = 10; console.log(a); } test();

Your Output: 10

Explain the Output in 1 line: a is initialized and assigned during function it is reassigned in the scope

Q6. What will be the output of the following code?

var x = 1; function y() { console.log(x); var x = 2; } y();

Your Output: undefined

Explain the Output in 1 line: there is global variable but due to var declaration it was hoisted and so it became undefined during scope

Q7. What will be the output of the following code?

let x = 10; if (true) { let x = 20; console.log(x); } console.log(x);

Your Output: 20 10

Explain the Output in 1 line: the inner x=20 does not affect global x=10

Q8. What will be the output of the following code?

var a = 1; function outer() { function inner() { console.log(a); } inner(); } outer();

Your Output: 1

Explain the Output in 1 line: the inner function accesses the global variable, so it logs the globally declared variable a = 1

Q9. What will be the output of the following code?

var a = 1; function outer() { var a = 2; function inner() { console.log(a); } inner(); } outer();

Your Output: 2

Explain the Output in 1 line: inner function access the closest declared outer variable that is a=2

Q10. What will be the output of the following code?

function a() { console.log('A'); } var a; a();

Your Output: A

Explain the Output in 1 line: as function is called it works

Q11. What will be the output of the following code?

setTimeout(() => console.log('1'), 0); console.log('2');

Your Output: 2 1

Explain the Output in 1 line: achronousfunction work only after synchronous code is cleared

Q12. What will be the output of the following code?

console.log(typeof foo); var foo = function() {};

Your Output: undefined

Explain the Output in 1 line: At the time of console.log, foo is declared but not yet assigned, so its type is undefined

Q13. What will be the output of the following code?

var x = 21; var fun = function () { console.log(x); var x = 20; }; fun();

Your Output: undefined

Explain the Output in 1 line: inside the function, var x is hoisted, so x is declared but undefined at the time of console.log(x)

Q14. What will be the output of the following code?

console.log(a); var a = 5; function a() {}

{Your Output: f a(){} new || 5 old

Explain the Output in 1 line:

Q15. What will be the output of the following code?

let a = 10; { let a = 20; console.log(a); }

Your Output: 20

Explain the Output in 1 line: inside scope variable is used for console.log(x)

Q16. What will be the output of the following code?

var a = 10; function test() { console.log(a); } test();

Your Output: 10

Explain the Output in 1 line: variable and function are declared and initialized by time it is used

Q17. What will be the output of the following code?

function outer() { var count = 0; return function inner() { count++; console.log(count); }; } var fn = outer(); fn(); fn();

Your Output: 1 2

Explain the Output in 1 line:

Q18. What will be the output of the following code?

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

Your Output: undefined

Explain the Output in 1 line: var a is hoisted and shadows the outer a, so a is declared but undefined when logged

Q19. What will be the output of the following code?

function x() { console.log('x called'); } x(); var x;

Your Output: x called

Explain the Output in 1 line: function is hoisted and called first

Q20. What will be the output of the following code?

var a = 5; var b = a + 2; console.log(b);

Your Output: 7

Explain the Output in 1 line: a ,b are both declared and initialized by time they are used