**JAVASCRIPT TASK**

**20-12-2024**

console.log("OPERATORS")

console.log("1. What is the result of 10 + '5'?")

console.log(10 + '5')

console.log("2. What is the value of x after x = 10; x += 5;?")

x2 = 10

x2 += 5

console.log(x2)

console.log("3. What is the result of 10 - null?")

console.log(10 - null)

console.log("4. What is the value of x after x = 10; x \*= 2;?")

x4 = 10

x4 \*= 2

console.log(x4)

console.log("5. What is the result of 10 / '2'?")

console.log(10 / '2')

console.log("6. What is the result of 10 % 3?")

console.log(10%3)

console.log("7. What is the value of x after x = 10; x = x \*\* 2;?")

x7 = 10

x7 = x7 \*\* 2

console.log(x7)

console.log("8. What is the result of 10 > 5 && 5 < 10?")

console.log(10 > 5 && 5 < 10)

console.log("9. What is the result of 10 === '10'?")

console.log(10 === '10')

console.log("10. What is the result of null ?? 'default'?")

console.log(null ?? 'default')

console.log("11. What is the result of 10 || 'default'?")

console.log(10 || 'default')

console.log("12. What is the result of !true?")

console.log(!true)

console.log("13. What is the result of 10 & 5?")

console.log(10 & 5)

console.log("14. What is the result of 10 | 5?")

console.log(10 | 5)

console.log("15. What is the result of 10 ^ 5?")

console.log(10 ^ 5)

console.log("What is the result of x = 10; y = ++x;?")

x16 = 10

console.log("x = " + x16)

y16 = ++x16

console.log("y = ", y16)

console.log("x = " + x16)

console.log("2. What is the result of x = 10; y = x++;?")

x17 = 10

console.log("x = " + x17)

y17 = x17++

console.log("y = ", y17)

console.log("x = " + x17)

console.log("3. What is the result of x = 10; console.log(++x);?")

x18 = 10

console.log(++x18)

console.log("4. What is the result of x = 10; console.log(x++);?")

x19 = 10;

console.log(x19++);

console.log("5. What is the result of x = 10; y = --x;?")

x20 = 10;

console.log("x = " + x20)

y20 = --x20;

console.log("y = ", y20)

console.log("x = " + x20)

console.log("6. What is the result of x = 10; y = x--;? What are the values of x and y?")

x21 = 10;

console.log("x = " + x21)

y21 = x21--;

console.log("y = ", y21)

console.log("x = " + x21)

console.log("Ternary Operators:")

console.log("1. What is the result of x = 10; y = x > 5 ? 'yes' : 'no';? What is the value of y?")

x22 = 10

console.log("x = " + x22)

y22 = x22 > 5 ? 'yes' : 'no'

console.log("y = " + y22)

console.log("3. What is the result of x = 10; y = x > 5 ? 'yes' : x > 3 ? 'maybe' : 'no';?What is the value of y?")

x23 = 10

console.log("x = " + x23)

y23 = x23 > 5 ? 'yes' : x23 > 3 ? 'maybe' : 'no'

console.log("y = " + y23)

console.log("Optional Chaining:")

console.log("1. What is the result of const obj = { a: { b: 'c' } }; console.log(obj?.a?.b);?")

const obj1 = {

a: {

b: 'c'

}

}

console.log(obj1?.a?.b)

console.log("2. What is the result of const obj = { a: { b: 'c' } }; console.log(obj?.a?.c);?")

const obj2 = {

a: {

b: 'c'

}

}

console.log(obj2?.a?.c)

console.log("3. What is the result of const obj = { a: { b: 'c' } }; console.log(obj?.b?.c);?")

const obj3 = {

a: {

b: 'c'

}

}

console.log(obj3?.b?.c)

$ NODE index.js

OPERATORS

1. What is the result of 10 + '5'?

105

2. What is the value of x after x = 10; x += 5;?

15

3. What is the result of 10 - null?

10

4. What is the value of x after x = 10; x \*= 2;?

20

5. What is the result of 10 / '2'?

5

6. What is the result of 10 % 3?

1

7. What is the value of x after x = 10; x = x \*\* 2;?

100

8. What is the result of 10 > 5 && 5 < 10?

true

9. What is the result of 10 === '10'?

false

10. What is the result of null ?? 'default'?

default

11. What is the result of 10 || 'default'?

10

12. What is the result of !true?

false

13. What is the result of 10 & 5?

0

14. What is the result of 10 | 5?

15

15. What is the result of 10 ^ 5?

15

What is the result of x = 10; y = ++x;?

x = 10

y = 11

x = 11

2. What is the result of x = 10; y = x++;?

x = 10

y = 10

x = 11

3. What is the result of x = 10; console.log(++x);?

11

4. What is the result of x = 10; console.log(x++);?

10

5. What is the result of x = 10; y = --x;?

x = 10

y = 9

x = 9

6. What is the result of x = 10; y = x--;? What are the values of x and y?

x = 10

y = 10

x = 9

Ternary Operators:

1. What is the result of x = 10; y = x > 5 ? 'yes' : 'no';? What is the value of y?

x = 10

y = yes

3. What is the result of x = 10; y = x > 5 ? 'yes' : x > 3 ? 'maybe' : 'no';?What is the value of y?

x = 10

y = yes

Optional Chaining:

1. What is the result of const obj = { a: { b: 'c' } }; console.log(obj?.a?.b);?

c

2. What is the result of const obj = { a: { b: 'c' } }; console.log(obj?.a?.c);?

undefined

3. What is the result of const obj = { a: { b: 'c' } }; console.log(obj?.b?.c);?

undefined