FINAL TEST

Question 1 → Entering 'about:blank' in the address bar of your browser will:

- ( ) open a tab with information about your browser
- ( ) Clear all inputs on the current page.
- ( ) generate a page with information about the browser's status
- (✓) generate and load a minimal blank HTML page into the current tab.

Question 2 → Analyze the following code:

```
let id = "100";
{
let id = 200;
id = id + 1
console.log(id)
}
```

What will appear to the console as a result?

- (✓) 201
- ( ) 101
- ( ) 1001
- ( ) 200

Question 3 → Select a set of data types, containing only 'complex' types:

- ( ) Array, Object, String
- ( ) Boolean, Number, BigInt
- (✓) Array, Object
- ( ) Object, String

Question 4 → We can replace the declaration 'let x = 3e-3;' with:

- ( ) let x = 3.000;
- ( ) let x = 0.0003;
- ( ) let x = 0.333;
- (✓) let x = 0.003;

Question 5 → Using the 'string interpolation' technique, we can create the string:
"I do not like travelling by plane"
and store it in the 'msg' variable using the command:

- ○ let means = "plane";
  let msg = "I do not like travelling by ${means}";
- ○ let means = "plane";
  let msg = `I do not like travelling by ~~${means}~~ {means}`;
- ○ let means = "plane";
  let msg = 'I do not like travelling by ${means}';
- ✓ let means = "plane";
  let msg = `I do not like travelling by ${means}`;

Question 6 → We declare a 'movie' object, with two fields: 'title' and 'year':

```
let movie = {
title: "Life",
year: 1999
}
```

To change the value of title field to "Matrix" we need to perform:

- ○ movie{title} = "Matrix";
- ○ title → movie = "Matrix";
- ✓ movie.title = "Matrix";
- ○ movie[title] = "Matrix";

Question 8 → You declare the following array of animals: 'let animals = ["canary", "dog", "cat"]; Then you call the method animals.push("hamster"); What will the 'animals' array look like after calling the method?

- ○ ["hamster"]
- ✓ ["canary", "dog", "cat", "hamster"]
- ○ ["canary", "dog", "cat"]
- ○ ["hamster", "canary", "dog", "cat"]

Question 8 → A JavaScript code includes the 'console.log("http://somethingNew.org");' command. Its execut" will:

- ○ display on the console informat" about the progress of the http://somethingNew.org page loading.
- ✓ display the following message on the console: "https://somethingNew.org"
- ○ Send a log with informat" about the currently executed script to the indicated address http://somethingNew.org.
- ○ Cause the page http://somethingNew.org to be loaded into the browser.

Question 9 → Analyze the code snippet:

```
let winter = ["December", "January", "February"];
let index = winter.indexOf("February");
```

What will the 'index' variable have?

(✓) 2 ( ) 1 ( ) "February" ( ) 3

Question 10 → In the 'daysOfWeek' variable, you place an array with the names of the days of the week. Which method will you call to reverse the order of the array elements.

( ) daysOfWeek.order(-1); ( ) daysOfWeek.invert();

(✓) daysOfWeek.reseverse(); ( ) daysOfWeek = reverse(daysOfWeek);

Question 11 → Review the following code:

```
let msg1 = 'hello';
let msg2 = msg1.slice(-1);
console.log(msg2 : msg2 : msg2 + msg1);
```

What will appear on the console:

( ) ohello ( ) "hello" (✓) olleh ( ) heeet

Question 12 → Analyze the following code:

```
let test = prompt("Run", "code");
```

What ~~with~~ value will 'test' variable have if, after running the code, we immediately press the 'OK' button on the newly created dialog?

( ) OK ( ) Run (✓) code ( ) true

Question 13 → Analyze the following code:

```
let x = false || true;
let y = "true" && "false"
let z = false && true;
console.log(`${x} ${y} ${z}`);
```

What will appear in the console as a result of its execut"?

(✓) true false false ( ) false false true

( ) false true true ( ) false false false

Question 14 → Analyze the following code:

```
let a = true && 20;
let b = 0 || 20;
let c = 0 && 20;
console.log(`${a} ${b} ${c}`);
```

What will appear in the console as a result of its execut"?

( ) true 20 0 ( ) true true false

( ) 1 1 0 (✓) 20 20 0

Question 15 → Examine the following code:

```
let a = 20 + "10";
let b = 20 + +"10";
let c = 20 + -"10" + "10";
let d = "10" - "10" + "100";
let e = "A" - "B" + 0xA;
console.log(`${a}, ${b}, ${c}, ${d}, ${e}`);
```

What will appear on the console as a result?

- ○ 30, 30, 20, 100, 2
- ○ 2010, 2010, 20-2010, 0100, NaN
- ○ 30, 31, 39, 100, NaN
- ✓ 2010, 30, 1010, 0100, NaN

Question 16 → Which of the following loop instructions checks the loop continuation condition only after the iteration has been completed?

○ for... in ○ while ○ for ✓ do... while

Question 17 → The following function using a function expression has been defined:

```
let sum = function(a, b){
  return (a+b);
}
```

What could the definition of the corresponding arrow function look like?

- ○ let sum = (a, b) --> a+b;
- ○ let sum = function(a, b) => { return (a+b); }
- ✓ let sum = (a, b) => a+b;
- ○ let sum = (a, b) => {a+b};

Question 18 → The 'temp' array contains air temperature data measured over a period of time. You want to display the minimal temperature using the following code:

```
temp.forEach(e => min = min > e ? e : min);
console.log(min);
```

What should the declaration of the 'min' variable look like?

- ○ let min;
- ○ let min = 0;
- ✓ let min = temp[0];
- ○ It's not necessary, as it will be declared automatically on first use.

Question 19 → Examine the following code:

```
let x = [10, 20, 30, 40];
let y = [50, 60];
x.reverse.push(y);
console.log(x.length);
```

What will appear on the console as a result?

✓ 5 ○ 6 ○ 2 ○ 4

Question 20 → Analyze the following code:

```
for (let a = 1; a < 10; a += 2) {
    console.log(a);
};
```

Which statement can replace the 'for' from the example?

○
```
let counter = 0;
while (counter < 9)
    console.log (counter++);
```

✓
```
let counter = 0;
while (counter++ < 10)
    console.log (counter++);
```

○
```
let counter = 1;
while (counter++ < 10)
    console.log (counter++);
```

Question 21 → Analyze the following code:

```
let colors = ['red', 'green', 'blue'];
for (let c of colors)
    console.log(c);
```

What will appear on the console as a result?

○ 3 ✓ red green blue ○ ['red', 'green', 'blue']

○ 0 1 2

Question 22 → Analyze the following code:

```
let route = { distance: 131, elevation: 1.4 };
for (let k in route)
    console.log(k);
```

What will appear on the console?

○ 2 ✓ distance elevation ○ 131 1.4 ○ distance

Question 23 → Examine the following code:

```
let a = (n) => {
return n > 2 ? n * a(n-1) : 2
}
Console.log(a(6));
```

○ 120 ○ 4 ✓ 720 ○ 6

uestion 24→ Examine the following code:

```
et x = mult(2)(10);
onsole.log(x); // → 20
```

hat should the 'mult' function declaratⁿ ok like if the executⁿ of this code results in value of '20' in the console?

- ○
```
let mult = function (a, b) {
    return a * b;
}
```
- ✓
```
let mult = function (a) {
    return function (b) {
        return a * b;
    }
}
```
- ○
```
let mult = function (a, b) {
    return b ? mult(b) : mult(a);
}
```

) This is an error in the code and it is ot possible to declare such a function orrectly.

Question 25→ Analyze the following code:

```
et counter = 0;
et userName = "John";
```

fter ~~th~~ declaring the 'counter' variable, e went to add a short comment ~~with~~ with nformatⁿ about what the variable is used for. o do this, we modify the line with the declaratⁿ o the form:

- ○ `let counter = 0; // user visit counter`
- ○ `let counter = 0; /* user visit counter`
- ○ `// let counter = 0; user visit counter`
- ✓ `let counter = 0; // user visit counter`

Question 26→ Analyze the following code:

```
x = [40, 10, 30, 20, 50];
x.sort(cmp);
```

low should the function 'cmp' be declared f, after the code execution, the elements of the array 'x' are sorted in ascending order?

- ✓ `let cmp = (a, b) => a - b;`
- ○ `let cmp = (a, b) => b < a;`
- ○ `let cmp = (a, b) => b > a;`
- ○ `let cmp = (a, b) => b - a;`

Question 27→ Analyze the following code which is missing one line:

```
let counter = 2;
let interval = setInterval(() => {
    console.log(counter);
    // Insert missing line here
}, 1000);
```

What should the missing line look like if the executⁿ of this code results in the console displaying the values 2, 1, and 0 in sequence?

- ○ `clearInterval(interval);`
- ○ `if (counter-- >= 0) clearInterval(interval);`
- ○ `while (counter-- >= 0) clearInterval(interval);`
- ✓ `if (counter-- <= 0) clearInterval(interval);`

Question 28 → Analyze the following code:

```
function execute (todo, a, b) {
    return todo (a, b);
}
console.log (execute (power, 3, 2));
```

- ○ let power = () => a ** b;
- ○ let power = (x, y) => x * y;
- ✓ let power = (x, y) => x ** y;
- ○ let power = g;

Before declaring the function, we should add one more line of code. Which one, if ~~yo~~ the execut^n of the completed code will result in the console displaying the value 'g'?

Question 29 → Analyze the following code:

```
const a = "hello";
console.log (a.toUpperCase ());
} catch (error) {
    console.log (a)} finally {
    console.log (a);
}
```

What will happen as a result of its execution?

- ○ The following words will appear in the console on subsequent lines: 'HELLO', 'hello' and 'hello'.
- ○ Appear in the console: 'HELLO'
- ○ Appear in the console on subsequent lines: 'hello' and 'hello'
- ✓ Appear in the console on subsequent lines: 'HELLO' and 'hello'.

Question 30 → Placing a 'debugger;' statement in the program code will:

- ○ put the interpreter into report mode, which will cause the console to print ~~the~~ out all sequentially executed commands.
- ✓ pause the program with the ability to continue, as long as the execut^n environment supports "debugging functionality".
- ○ Stop the program without the ability to continue, as long as the execut^n environment supports "debugging functionality".
- ○ cause the ~~program~~ console to display the completion status of the statement preceding the debugger.