

1. What is Javascript?

JavaScript is a scripting or programming language that allows you to implement complex features on web pages — every time a web page does more than just sit there and display static information for you to look at — displaying timely content updates, interactive maps, animated 2D/3D graphics, scrolling video jukeboxes, etc. — you can bet that JavaScript is probably involved. It is the third layer of the layer cake of standard web technologies, two of which (HTML and CSS) we have covered in much more detail in other parts of the Learning Area.

2. What does Javascript do in an HTML page?

JavaScript is the Programming Language for the Web. JavaScript can update and change both HTML and CSS. JavaScript can calculate, manipulate and validate data.

3. What is the basic structure of Javascript?

JavaScript programs consist of a series of instructions known as statements, just as written paragraphs consist of a series of sentences. While a sentence will end with a period, a JavaScript statement often ends in a semicolon (;).

4. Provide 5 samples (screenshots) of a javascript code.

INPUT

```
console.log("Hello, World!");
```

OUTPUT

```
Hello, World!
```

INPUT

```
if (age >= 18) {  
    console.log("You are an adult.");  
} else {  
    console.log("You are a minor.");  
}
```

OUTPUT

```
You are an adult.  
- - - - -
```

INPUT

```
for (var i = 1; i <= 5; i++) {  
    console.log("Number: " + i);  
}
```

OUTPUT

```
Number: 1  
Number: 2  
Number: 3  
Number: 4  
Number: 5  
- - -
```

INPUT

```
function add(a, b) {  
    return a + b;  
}  
  
var result = add(3, 4);  
console.log("The sum is: " + result);
```

OUTPUT

```
The sum is: 7
```

INPUT

```
var numbers = [1, 2, 3, 4, 5];  
var sum = 0;  
  
for (var i = 0; i < numbers.length; i++) {  
    sum += numbers[i];  
}  
  
console.log("The sum of numbers is: " + sum);
```

OUTPUT

```
The sum of numbers is: 15
```

5. Provide a sample of a javascript code implemented in an HTML page. Upload it on you GITHUB Repository and submit/paste your LINK.

<https://marso07.github.io/JOJEL/>