



Prácticas en JavaScript



1. Mostrar un Hello World!

Código

```
1 <html>
2 <head>
3   <title>My First JavaScript code!!!</title>
4   <script type="text/javascript">
5     alert("Hello World!");
6   </script>
7 </head>
8 <body>
9 </body>
10</html>
```

Navegador

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Hello World!

Aceptar



1. Mostrar un Hello World!

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9 </body>
10</html>
```

Navegador



2. Nombrar variables

Código

```
1 <html>
2 <head>
3   <title>Variables!!!</title>
4   <script type="text/javascript">
5     var one = 22;
6     var two = 3;
7     var add = one + two;
8     var minus = one - two;
9     var multiply = one * two;
10    var divide = one / two;
11    document.write("First No: " + one + "<br />Second No: " + two + "<br />");
12    document.write(one + " + " + two + " = " + add + "<br />");
13    document.write(one + " - " + two + " = " + minus + "<br />");
14    document.write(one + " * " + two + " = " + multiply + "<br />");
15    document.write(one + " / " + two + " = " + divide + "<br />");
16  </script>
17 </head>
18 <body>
19 </body>
20</html>
```

Navegador

First No: = 22
Second No: = 3
22 + 3 = 25
22 - 3 = 19
22 * 3 = 66
22 / 3 = 7.333333333333333

First No: = 22
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3. Arreglos

Código

```
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
<html>
<head>
  <title>Arrays!!!</title>
  <script type="text/javascript">
    var students = new Array("John", "Ann", "Aaron", "Edwin", "Elizabeth");
    Array.prototype.displayItems=function(){
      for (i=0;i<this.length;i++){
        document.write(this[i] + "<br />");
      }
    }
    document.write("students array<br />");
    students.displayItems();
    document.write("<br />The number of items in students array is " + students.length + "<br />");
    document.write("<br />The SORTED students array<br />");
    students.sort();
    students.displayItems();
    document.write("<br />The REVERSED students array<br />");
    students.reverse();
    students.displayItems();
    document.write("<br />THE students array after REMOVING the LAST item<br />");
    students.pop();
    students.displayItems();
    document.write("<br />THE students array after PUSH<br />");
    students.push("New Stuff");
    students.displayItems();
  </script>
</head>
<body>
</body>
</html>
```

Navegador

```
students array
John
Ann
Aaron
Edwin
Elizabeth

The number of items in students array is 5

The SORTED students array
Aaron
Ann
Edwin
Elizabeth
John

The REVERSED students array
John
Elizabeth
Edwin
Ann
Aaron

THE students array after REMOVING the LAST item
John
Elizabeth
Edwin
Ann

THE students array after PUSH
John
Elizabeth
Edwin
Ann
New Stuff
```



4. For, While, Do...While

For

```

<html>
<head>
  <script type="text/javascript">
    var students = new Array("John", "Ann", "Aaron", "Edwin", "Elizabeth");
    document.write("<b>Using for loops </b><br />");
    for (i=0;i<students.length;i++)
    {
      document.write(students[i] + "<br />");
    }
  </script>
</head>
<body>
</body>
</html>

```

Using for loops

John
Ann
Aaron
Edwin
Elizabeth

While

```

<html>
<head>
  <script type="text/javascript">
    document.write("<b>Using while loops </b><br />");
    var i = 0, j = 1, k;
    document.write("Fibonacci series less than 40<br />");
    while(i<40)
    {
      document.write(i + "<br />");
      k = i+j;
      i = j;
      j = k;
    }
  </script>
</head>
<body>
</body>
</html>

```

Using while loops

Fibonacci series less than 40

0
1
1
2
3
5

Do...While

```

<html>
<head>
  <script type="text/javascript">
    document.write("<b>Using do...while loops </b><br />");
    var i = 2;
    document.write("Even numbers less than 20<br />");
    do
    {
      document.write(i + "<br />");
      i = i + 2;
    }while(i<20)
  </script>
</head>
<body>
</body>
</html>

```

Using do...while loops

Even numbers less than 20

2
4
6
8
10
12
14
16
18



5. If, If...Else,

If

You are an adult

```
1 <html>
2 <head>
3   <title>IF Statments!!!</title>
4   <script type="text/javascript">
5     var age = prompt("Please enter your age");
6     if(age>=18)
7       document.write("You are an adult <br />");
8     if(age<18)
9       document.write("You are NOT an adult <br />");
10  </script>
11 </head>
12 <body>
13 </body>
14 </html>
```

If...Else

9 is equal to 9.

```
1 <html>
2 <head>
3   <title>If...Else Statments!!!</title>
4   <script type="text/javascript">
5     // Get the current hours
6     var hours = new Date().getHours();
7     if(hours<12)
8       document.write("Good Morning!!!<br />");
9     else
10      document.write("Good Afternoon!!!<br />");
11  </script>
12 </head>
13 <body>
14 </body>
15 </html>
```

6. Funciones

Function

This is a simple function.

```
1 <html>
2 <head>
3   <title>Functions!!!</title>
4   <script type="text/javascript">
5     function myFunction()
6     {
7       document.write("This is a simple function.<br />");
8     }
9     myFunction();
10  </script>
11 </head>
12 <body>
13 </body>
14 </html>
```



6. Functions

Function

```
"Sin título: Bloc de notas"
Archivo Edición Formato Ver Ayuda
<html>
<head>
  <script type="text/javascript">
    var count = 0;
    function countVowels(name)
    {
      for (var i=0;i<name.length;i++)
      {
        if(name[i] == "a" || name[i] == "e" || name[i] == "i" || name[i] == "o" || name[i] == "u")
        {
          count = count + 1;
        }
      }
      document.write("Hello " + name + "!!! Your name has " + count + " vowels.");
    }
    var myName = prompt("Please enter your name");
    countVowels(myName);
  </script>
</head>
<body>
</body>
</html>
```

Hello aaron!!! Your name has 3 vowels.

Function

```
"Sin título: Bloc de notas"
Archivo Edición Formato Ver Ayuda
<html>
<head>
  <script type="text/javascript">
    function returnSum(first, second)
    {
      var sum = first + second;
      return sum;
    }
    var firstNo = 78;
    var secondNo = 22;
    document.write(firstNo + " + " + secondNo + " = " + returnSum(firstNo,secondNo));
  </script>
</head>
<body>
</body>
</html>
```

78 + 22 = 100

7. Cookies in JavaScript

Cookies in JavaScript

```
"Sin título: Bloc de notas"
Archivo Edición Formato Ver Ayuda
<html>
<head>
  <title>Cookie!!!</title>
  <script type="text/javascript">
    function createCookie(cookieName,cookieValue,daysToExpire)
    {
      var date = new Date();
      date.setTime(date.getTime()+(daysToExpire*24*60*60*1000));
      document.cookie = cookieName + "=" + cookieValue + "; expires=" + date.toGMTString();
    }

    function accessCookie(cookieName)
    {
      var name = cookieName + "=";
      var allCookieArray = document.cookie.split(';');
      for(var i=0; i<allCookieArray.length; i++)
      {
        var temp = allCookieArray[i].trim();
        if (temp.indexOf(name)==0)
        {
          return temp.substring(name.length,temp.length);
        }
      }
      return "";
    }

    function checkCookie()
    {
      var user = accessCookie("testCookie");
      if (user!="")
      {
        alert("Welcome Back " + user + "!!!");
      }
      else
      {
        user = prompt("Please enter your name");
        num = prompt("How many days you want to store your name on your computer?");
        if (user!=" " && user!=null)
        {
          createCookie("testCookie", user, num);
        }
      }
    }
  </script>
</head>
<body onload="checkCookie()"></body>
</html>
```

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Welcome Back aaron!!!

Accept



8. DOM

```
1 <html>
2 <head>
3   <title>DOM!!!</title>
4 </head>
5 <body>
6   <h1 id="one">Welcome</h1>
7   <p>This is the welcome message.</p>
8   <h2>Technology</h2>
9   <p>This is the technology section.</p>
10  <script type="text/javascript">
11    var text = document.getElementById("one").innerHTML;
12    alert("The first heading is " + text);
13  </script>
14 </body>
15 </html>
```

Welcome

This is the welcome message.

Technology

```
<html>
<head>
  <title>DOM!!!</title>
</head>
<body>
  <h1>Welcome</h1>
  <p>This is the welcome message.</p>
  <h2>Technology</h2>
  <p id="second">This is the technology section.</p>
  <script type="text/javascript">
    var paragraphs = document.getElementsByTagName("p");
    alert("Content in the second paragraph is " + paragraphs[1].innerHTML);
    document.getElementById("second").innerHTML = "The original message is changed.";
  </script>
</body>
</html>
```

Welcome

This is the welcome message.

Technology

```
<html>
<head>
  <title>DOM!!!</title>
</head>
<body>
  <input type="button" id="btnClick" value="Click Me!!" />
  <script type="text/javascript">
    document.getElementById("btnClick").addEventListener("click", clicked);
    function clicked()
    {
      alert("You clicked me!!!");
    }
  </script>
</body>
</html>
```

Click Me!!



9. Object Oriented

```

<html>
<head>
  <title>Objects!!!</title>
  <script type="text/javascript">
    var student = new Object();
    student.fName = "John";
    student.lName = "Smith";
    student.id = 5;
    student.markE = 76;
    student.markM = 99;
    student.markS = 87;
    student.calculateAverage = function()
    {
      return (student.markE + student.markM + student.markS)/3;
    };
    student.displayDetails = function()
    {
      document.write("Student Id: " + student.id + "<br />");
      document.write("Name: " + student.fName + " " + student.lName + "<br />");
      var avg = student.calculateAverage();
      document.write("Average Marks: " + avg);
    };
  </script>
  student.displayDetails();
</head>
<body>
</body>
</html>

```

Student Id: 5
Name: John Smith
Average Marks: 87.33333333333333

```

<html>
<head>
  <script type="text/javascript">
    function Student(first, last, id, english, maths, science)
    {
      this.fName = first;
      this.lName = last;
      this.id = id;
      this.markE = english;
      this.markM = maths;
      this.markS = science;
      this.calculateAverage = function()
      {
        return (this.markE + this.markM + this.markS)/3;
      }
      this.displayDetails = function()
      {
        document.write("Student Id: " + this.id + "<br />");
        document.write("Name: " + this.fName + " " + this.lName + "<br />");
        var avg = this.calculateAverage();
        document.write("Average Marks: " + avg + "<br /><br />");
      }
    }
    var st1 = new Student("John", "Smith", 15, 85, 79, 90);
    var st2 = new Student("Hannah", "Turner", 23, 75, 88, 82);
    var st3 = new Student("Kevin", "White", 4, 93, 89, 90);
    var st4 = new Student("Rose", "Taylor", 11, 55, 63, 45);
    st1.displayDetails();
    st2.displayDetails();
    st3.displayDetails();
    st4.displayDetails();
  </script>
</head>
<body>
</body>
</html>

```

Student Id: 15
Name: John Smith
Average Marks: 84.66666666666667

Student Id: 23
Name: Hannah Turner
Average Marks: 79

Student Id: 4
Name: Kevin White
Average Marks: 90.66666666666667

Student Id: 11
Name: Rose Taylor
Average Marks: 54.333333333333336

```

1 <html>
2 <head>
3   <script type="text/javascript">
4     var employee={first:"John", last:"Doe", department:"Accounts"};
5     var details = "";
6     document.write("<b>Using for/in loops </b><br />");
7     for (var x in employee)
8     {
9       details = x + ": " + employee[x];
10      document.write(details + "<br />");
11    }
12  </script>
13 </head>
14 <body>
15 </body>
16 </html>

```

Using for/in loops
first: John
last: Doe
department: Accounts