

Web Tabanlı Uygulama

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Numerik Değerler Kullanımı

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>Integers are considered accurate up to 15 digits.</p>`
- `<button onclick="myFunction()">Try it</button>`
- `<p id="demo"></p>`
- `<script>`
- `function myFunction() {`
- `var x = 9999999999999999;`
- `var y = 9999999999999999;`
- `document.getElementById("demo").innerHTML = x + "
" + y;`
- `}`
- `</script>`
- `</body>`
- `</html>`

Numerik Değerler Kullanımı Küçük Hatalar

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>Floating point arithmetic is not always 100% accurate.</p>`
- `<button onclick="myFunction()">Try it</button>`
- `<p id="demo"></p>`
- `<script>`
- `function myFunction() {`
- `var x = 0.2 + 0.1;`
- `document.getElementById("demo").innerHTML = "0.2 + 0.1 = " + x;`
- `}`
- `</script>`
- `</body>`
- `</html>`

Numerik Değerler Kullanımı

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p>Floating point arithmetic is not always 100% accurate.</p>`
- `<p>But it helps to multiply and divide.</p>`

- `<button onclick="myFunction()">Try it</button>`

- `<p id="demo"></p>`

- `<script>`
- `function myFunction() {`
- `var x = (0.2*10 + 0.1*10) / 10;`
- `document.getElementById("demo").innerHTML = "0.2 + 0.1 = " + x;`
- `}`
- `</script>`

- `</body>`
- `</html>`

Numerik Değerler Kullanımı Hex Sayılar

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>Numeric constants, preceded by ox, are interpreted as hexadecimal.</p>`
- `<button onclick="myFunction()">Try it</button>`
- `<p id="demo"></p>`
- `<script>`
- `function myFunction() {`
- `document.getElementById("demo").innerHTML = "oxFF = " + oxFF;`
- `}`
- `</script>`
- `</body>`
- `</html>`

Numerik Değerler Kullanımı

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>Numeric constants, preceded by ox, are interpreted as hexadecimal.</p>`
- `<button onclick="myFunction()">Try it</button>`
- `<p id="demo"></p>`
- `<script>`
- `function myFunction() {`
- `document.getElementById("demo").innerHTML = "0xFF = " + 0xFF;`
- `}`
- `</script>`
- `</body>`
- `</html>`

Numerik Değerler Kullanımı-Sınırları Zorlama

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>Infinity is returned if you calculate a number outside the largest possible number.</p>`
- `<button onclick="myFunction()">Try it</button>`
- `<p id="demo"></p>`
- `<script>`
- `function myFunction() {`
- `var myNumber = 2;`
- `var txt = "";`
- `while (myNumber != Infinity) {`
- `myNumber = myNumber * myNumber;`
- `txt = txt + myNumber + "
";`
- `}`
- `document.getElementById("demo").innerHTML = txt;`
- `}`
- `</script>`
- `</body>`
- `</html>`

Sonsuzluk

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p>Division by zero also generates Infinity.</p>`

- `<button onclick="myFunction()">Try it</button>`

- `<p id="demo"></p>`

- `<script>`
- `function myFunction() {`
- `var x = 2/0;`
- `var y = -2/0;`
- `document.getElementById("demo").innerHTML = x + "
" + y;`
- `}`
- `</script>`

- `</body>`
- `</html>`

Tip Dönüşümü

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p>Infinity is a Number.</p>`

- `<button onclick="myFunction()">Try it</button>`

- `<p id="demo"></p>`

- `<script>`
- `function myFunction() {`
- `document.getElementById("demo").innerHTML = typeof Infinity;`
- `}`
- `</script>`

- `</body>`
- `</html>`

Veri Bozulması

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>A number divided by a non-numeric string becomes NaN (Not a Number):</p>`
- `<p id="demo"></p>`
- `<script>`
- `document.getElementById("demo").innerHTML = 100 / "Apple";`
- `</script>`
- `</body>`
- `</html>`

Numerik Kullanım

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>A number divided by a numeric string becomes a number:</p>`
- `<p id="demo"></p>`
- `<script>`
- `document.getElementById("demo").innerHTML = 100 / "10";`
- `</script>`
- `</body>`
- `</html>`

Numerik Değerler

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p id="demo"></p>`

- `<script>`
- `var x = 100 / "Apple";`
- `document.getElementById("demo").innerHTML = isNaN(x);`
- `</script>`

- `</body>`
- `</html>`

Numerik Değerler

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>If you use NaN in a mathematical operation, the result will also be NaN:</p>`
- `<p id="demo"></p>`
- `<script>`
- `var x = NaN;`
- `var y = 5;`
- `document.getElementById("demo").innerHTML = x + y;`
- `</script>`
- `</body>`
- `</html>`

Veri Dönüşümü

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p>The typeof NaN is:</p>`

- `<p id="demo"></p>`

- `<script>`
- `document.getElementById("demo").innerHTML = typeof NaN;`
- `</script>`

- `</body>`
- `</html>`

Numerik Değerler ve Obje

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p id="demo"></p>`

- `<script>`
- `var x = 123;`
- `var y = new Number(123);`

- `document.getElementById("demo").innerHTML = typeof x + "
" + typeof y;`
- `</script>`

- `</body>`
- `</html>`

Doğru Değer Karşılaştırma

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>Never create numbers as objects.</p>`
- `<p>Numbers and objects cannot be safely compared.</p>`
- `<p id="demo"></p>`
- `<script>`
- `var x = 500; // x is a number`
- `var y = new Number(500); // y is an object`
- `document.getElementById("demo").innerHTML = (x==y);`
- `</script>`
- `</body>`
- `</html>`

Obje ve Numerik Değer Karşılaştırma

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p>Never create numbers as objects.</p>`
- `<p>JavaScript objects cannot be compared.</p>`

- `<p id="demo"></p>`

- `<script>`
- `var x = new Number(500); // x is an object`
- `var y = new Number(500); // y is an object`
- `document.getElementById("demo").innerHTML = (x==y);`
- `</script>`

- `</body>`
- `</html>`

Hazır Değerler

Property	Description
MAX_VALUE	Returns the largest number possible in JavaScript
MIN_VALUE	Returns the smallest number possible in JavaScript
NEGATIVE_INFINITY	Represents negative infinity (returned on overflow)
NaN	Represents a "Not-a-Number" value
POSITIVE_INFINITY	Represents infinity (returned on overflow)

Max Value

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p id="demo"></p>`

- `<script>`
- `document.getElementById("demo").innerHTML = Number.MAX_VALUE;`
- `</script>`

- `</body>`
- `</html>`

Java Script'te En Çok Kullanılan Global Methodlar

Method	Description
Number()	Returns a number, converted from its argument.
parseFloat()	Parses its argument and returns a floating point number
parseInt()	Parses its argument and returns an integer

Java Script'te Kullanılan Nümerik Methodlar

Method

toString()

Description

Returns a number as a string

toExponential()

Returns a string, with a number rounded and written using exponential notation.

toFixed()

Returns a string, with a number rounded and written with a specified number of decimals.

toPrecision()

Returns a string, with a number written with a specified length

valueOf()

Returns a number as a number

Js ToString

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>The toString() method converts a number to a string.</p>`
- `<p id="demo"></p>`
- `<script>`
- `var x = 123;`
- `document.getElementById("demo").innerHTML =`
- `x.toString() + "
" +`
- `(123).toString() + "
" +`
- `(100 + 23).toString();`
- `</script>`
- `</body>`
- `</html>`

Js to Exponential

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>The toExponential() method returns a string, with the number rounded and written using exponential notation.</p>`
- `<p>An optional parameter defines the number of digits behind the decimal point.</p>`
- `<p id="demo"></p>`
- `<script>`
- `var x = 9.656;`
- `document.getElementById("demo").innerHTML =`
- `x.toExponential() + "
" +`
- `x.toExponential(2) + "
" +`
- `x.toExponential(4) + "
" +`
- `x.toExponential(6);`
- `</script>`
- `</body>`
- `</html>`

Js ToFixed

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p>The toFixed() method rounds a number to a given number of digits.</p>`
- `<p>For working with money, toFixed(2) is perfect.</p>`

- `<p id="demo"></p>`

- `<script>`
- `var x = 9.656;`
- `document.getElementById("demo").innerHTML =`
- `x.toFixed(0) + "
" +`
- `x.toFixed(2) + "
" +`
- `x.toFixed(4) + "
" +`
- `x.toFixed(6);`
- `</script>`

- `</body>`
- `</html>`

Js Precision

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p>The toPrecision() method returns a string, with a number written with a specified length:</p>`

- `<p id="demo"></p>`

- `<script>`
- `var x = 9.656;`
- `document.getElementById("demo").innerHTML =`
- `x.toPrecision() + "
" +`
- `x.toPrecision(2) + "
" +`
- `x.toPrecision(4) + "
" +`
- `x.toPrecision(6);`
- `</script>`

- `</body>`
- `</html>`

Js Number

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>The global JavaScript function Number() converts variables to numbers:</p>`
- `<p id="demo"></p>`
- `<script>`
- `document.getElementById("demo").innerHTML =`
- `Number(true) + "
" +`
- `Number(false) + "
" +`
- `Number(" 10") + "
" +`
- `Number("10 ") + "
" +`
- `Number("10 6");`
- `</script>`
- `</body>`
- `</html>`

Js ParseInt

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>The global JavaScript function parseInt() converts strings to numbers:</p>`
- `<p id="demo"></p>`
- `<script>`
- `document.getElementById("demo").innerHTML =`
- `parseInt("10") + "
" +`
- `parseInt("10.33") + "
" +`
- `parseInt("10 6") + "
" +`
- `parseInt("10 years") + "
" +`
- `parseInt("years 10");`
- `</script>`
- `</body>`
- `</html>`

Js ParseFloat

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>The global JavaScript function parseFloat() converts strings to numbers:</p>`
- `<p id="demo"></p>`
- `<script>`
- `document.getElementById("demo").innerHTML =`
- `parseFloat("10") + "
" +`
- `parseFloat("10.33") + "
" +`
- `parseFloat("10 6") + "
" +`
- `parseFloat("10 years") + "
" +`
- `parseFloat("years 10");`
- `</script>`
- `</body>`
- `</html>`

Js ValueOf

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p id="demo"></p>`

- `<script>`
- `var x = 123;`

- `document.getElementById("demo").innerHTML =`
- `x.valueOf() + "
" +`
- `(123).valueOf() + "
" +`
- `(100 + 23).valueOf();`
- `</script>`

- `</body>`
- `</html>`

Js Math Kütüphanesi Random

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>Math.random() returns a random number between 0 and 1.</p>`
- `<button onclick="myFunction()">Try it</button>`
- `<p id="demo"></p>`
- `<script>`
- `function myFunction() {`
- `document.getElementById("demo").innerHTML = Math.random();`
- `}`
- `</script>`
- `</body>`
- `</html>`

Js Min / Max Kullanımı

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>Math.min() returns the lowest value.</p>`
- `<button onclick="myFunction()">Try it</button>`
- `<p id="demo"></p>`
- `<script>`
- `function myFunction() {`
- `document.getElementById("demo").innerHTML =`
- `Math.min(0, 150, 30, 20, -8);`
- `}`
- `</script>`
- `</body>`
- `</html>`

Js Random Fonksiyon ile Kullanımı

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p>`
- In HTML, all global variables will become a window variables.
- `</p>`

- `<p id="demo"></p>`

- `<script>`
- `myFunction();`
- `document.getElementById("demo").innerHTML =`
- `"I can display " + window.carName;`

- `function myFunction() {`
- `carName = "Volvo";`
- `}`
- `</script>`

- `</body>`
- `</html>`

Js Round

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p>Math.round() rounds a number to its nearest integer.</p>`

- `<button onclick="myFunction()">Try it</button>`

- `<p id="demo"></p>`

- `<script>`
- `function myFunction() {`
- `document.getElementById("demo").innerHTML = Math.round(5.7);`
- `}`
- `</script>`

- `</body>`
- `</html>`

Js Ceil

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>Math.ceil() rounds a number up to its nearest integer.</p>`
- `<button onclick="myFunction()">Try it</button>`
- `<p id="demo"></p>`
- `<script>`
- `function myFunction() {`
- `document.getElementById("demo").innerHTML = Math.ceil(4.4);`
- `}`
- `</script>`
- `</body>`
- `</html>`

Js Floor

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>Math.floor() rounds a number down to its nearest integer.</p>`
- `<button onclick="myFunction()">Try it</button>`
- `<p id="demo"></p>`
- `<script>`
- `function myFunction() {`
- `document.getElementById("demo").innerHTML = Math.floor(4.7);`
- `}`
- `</script>`
- `</body>`
- `</html>`

Js Random & Ceil Birlikte Kullanım

- `<!DOCTYPE html>`
- `<html>`
- `<body>`
- `<p>Math.floor() combined with Math.random() can return random integers.</p>`
- `<button onclick="myFunction()">Try it</button>`
- `<p id="demo"></p>`
- `<script>`
- `function myFunction() {`
- `document.getElementById("demo").innerHTML =`
- `Math.floor(Math.random() * 11);`
- `}`
- `</script>`
- `</body>`
- `</html>`

Js ve Hazır Math

- `<!DOCTYPE html>`
- `<html>`
- `<body>`

- `<p>Math constants are E, PI, SQRT2, SQRT1_2, LN2, LN10, LOG2E, LOG10E</p>`

- `<button onclick="myFunction()">Try it</button>`

- `<p id="demo"></p>`

- `<script>`
- `function myFunction() {`
- `document.getElementById("demo").innerHTML =`
- `Math.E + "
" +`
- `Math.PI + "
" +`
- `Math.SQRT2 + "
" +`
- `Math.SQRT1_2 + "
" +`
- `Math.LN2 + "
" +`
- `Math.LN10 + "
" +`
- `Math.LOG2E + "
" +`
- `Math.LOG10E + "
";`
- `}`
- `</script>`

- `</body>`
- `</html>`

Js Hazır Methodlar

Method	Description
<code>abs(x)</code>	Returns the absolute value of x
<code>acos(x)</code>	Returns the arccosine of x, in radians
<code>asin(x)</code>	Returns the arcsine of x, in radians
<code>atan(x)</code>	Returns the arctangent of x as a numeric value between $-\pi/2$ and $\pi/2$ radians
<code>atan2(y,x)</code>	Returns the arctangent of the quotient of its arguments
<code>ceil(x)</code>	Returns x, rounded upwards to the nearest integer
<code>cos(x)</code>	Returns the cosine of x (x is in radians)
<code>exp(x)</code>	Returns the value of E^x
<code>floor(x)</code>	Returns x, rounded downwards to the nearest integer
<code>log(x)</code>	Returns the natural logarithm (base E) of x
<code>max(x,y,z,...,n)</code>	Returns the number with the highest value
<code>min(x,y,z,...,n)</code>	Returns the number with the lowest value
<code>pow(x,y)</code>	Returns the value of x to the power of y
<code>random()</code>	Returns a random number between 0 and 1
<code>round(x)</code>	Rounds x to the nearest integer
<code>sin(x)</code>	Returns the sine of x (x is in radians)
<code>sqrt(x)</code>	Returns the square root of x
<code>tan(x)</code>	Returns the tangent of an angle

İleriwep Programlama

Dersinde İşlenecek Js ile İlgili Kalan Konular

- JS Forms (API), JS HTML DOM
- JS Browser BOM, JS Libraries, Js JQuery
JS Hoisting / JS Strict Mode/JS Style Guide/
- JS Best Practices/ JS Mistakes/ JS Performance
- JS Reserved Words / JS JSON