JavaScript

1. Basic

JavaScript provides seven different data types which are undefined, null, boolean, string, symbol, number, and object.

When JavaScript variables are declared, they have an initial value of undefined. If you do a mathematical operation on an undefinedvariable your result will be NaNwhich means "Not a Number". If you concatenate a string with an undefinedvariable, you will get a literal string of "undefined".

5 % 2 = 1 because  
Math.floor(5 / 2) = 2 (Quotient)  
2 \* 2 = 4  
5 - 4 = 1 (Remainder)

## Continue Basic JavaScript: Understand String Immutability

1. Typeof

To check type of variables: number, string, object, undefined.

if (typeof variable == 'undefined'){

    document.write("Biến variable không được định nghĩa");

}

1. Reverse

function reverseString(str) {

return str.split('').reverse().join('');

}

1. Arrays

function largestOfFour(arr) {

// You can do this!

var maxArray = [];

for (var i = 0; i < arr.length; i++){

var maxNub = arr[i][0];

console.log(maxNub);

for (var j = 0; j < arr[i].length; j++){

if(arr[i][j] > maxNub){

maxNub = arr[i][j];

}

}

maxArray.push(maxNub);

}

return maxArray;

}

largestOfFour([[13, 27, 18, 26], [4, 5, 1, 3], [32, 35, 37, 39], [1000, 1001, 857, 1]]);

* Filter()

Boolean include:

Boolean(false); // false

Boolean(""); // false

Boolean(null); // false

Boolean(undefined); // false

Boolean(0); // false

Boolean(NaN); // false

Boolean(1); // true

Boolean("hello"); // true

Boolean(true); // true

Boolean({}); // true

Boolean([]); // true

function bouncer(arr) {

// Don't show a false ID to this bouncer.

console.log(arr.filter(Boolean));

}

bouncer([7, "ate", "", false, 9]);

Result: 7,ate,9

1. Slice

function confirmEnding(str, target) {

// "Never give up and good luck will find you."

// -- Falcor

return str.slice(str.length - target.length) === target;

}

confirmEnding("He has to give me a new name", "name");

1. Substring

function truncateString(str, num) {

// Clear out that junk in your trunk

var lengthStr = str.length;

if(lengthStr>num){

str= str.substring(0,num)+'...';

}

console.log(str);

return str;

}

truncateString("A-tisket a-tasket A green and yellow basket", 8);

truncateString("A-tisket a-tasket A green and yellow basket", "A-tisket a-tasket A green and yellow basket".length + 2)

Result:

A-tisket...

A-tisket a-tasket A green and yellow basket