



Career Services Assignment 3 – Java Flash Cards

Instructions: Research common JavaScript interview questions online and create 20 flash cards from the information you find. Study your flash cards regularly to better prepare for interviews. Fill out the table below with the information you put on each of your flash cards.

Front of Card	Back of Card
What are the different data types present in JavaScript?	There are primitive data types. Including, string, number, Boolean, BigInt, undefined, null and symbol. Then there is also a non-primitive data type which is objects. The difference between the two is that primitive data type can only store a single value, so in order to store complex value we use non-primitive data types.
What is the difference between “==” and “===” operators	“==” is an equality operator that implicitly converts data types to see if there’s a match. “===” is an identity operator which the operands must be the same value and same data type to return true.
What is the difference between var, let and const.?	Var is the original method of defining a variable in JavaScript. They can be defined both global and locally/functionally. They can be redefined with a function or simply right below the first variable declaration. Let is block scoped. This means that once a variable is declared using let, it cannot be redeclared only updated within its block. A variable declared within in a function can be updated to hold a different value with no effect on the original variable. Similarly, variables declared with const are also block scoped, but they cannot be updated or redeclared.
Explain implicit type coercion in JavaScript.	It is the automatic coercion of value from one data type to another. It takes place when the operands of an expression are of different data types. A few examples are string coercion, Boolean coercion, and equality coercion
What is an immediately invoked function in JS?	It is a function that runs as soon as it is defined by using a second set of parenthesis around the entirety of the function. This tells



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	the compiler that the function is a function expression opposed to function declaration.
What is strict-mode in JS?	Strict-mode is a new feature in ECMAScript 5 that helped developers debug and lowers chances or errors. Some characteristics of strict mode include, not allowing duplicate arguments, unable to use JavaScript keyword as a parameter or function, 'use strict' keyword is used to define strict mode at the start of the script, its supported by all browsers, and developers are not allowed to create global variables.
Explain high order functions in JavaScript.	High order functions are functions that operate on other functions by taking them as arguments or by returning them.
Explain “this” keyword	The “this” keyword refers to an object that a function is a property of.
Explain scope and scope chain in JavaScript	The scope determines the accessibility of variables and functions at various parts of one’s code. Depending on the scope you are working from determines which variables and functions that can be accessed. The three scopes are Global, Local or Function, and Block Scopes. The scope chain refers to the method in which the JavaScript engine locates variables. If it doesn’t locate any in the local scope, it will check the outer scope and then the global scope.
What are callbacks?	A callback function is a function that is executed after another function gets executed.
What are the types of errors in JavaScript?	There are two types of errors in JavaScript. They include syntax and logical errors. Syntax errors are mistakes or spelling errors that cause the program to not execute. Logical errors occur when the syntax is correct but the logic is not causing the program to have errors when executing.
What is the use of a constructor function in JavaScript?	Constructor functions are used to created objects. Typically used when the object has multiple properties.



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Which method is used to retrieve a character from a certain index?	To retrieve the first index number we use <code>string(0)</code> and to retrieve the last index number we use <code>string(n-1)</code> .
What are arrow functions?	They are the new and shorter syntax for declaring function expressions.
How many different methods are there to make an object?	To declare or construct an object you can use a class, create method, object literals, use a function, or use an object constructor.
What is the use of promises in JavaScript?	Promises are used for asynchronous code. It creates an instruction for the program to wait for one piece of the code to complete until running the next.
What are classes in JavaScript?	Classes are a new way of declaring constructor functions in JavaScript. They allow for the creation of objects that store internal data, allows for private fields, and related functions can be organized within the class to which they belong.
What is the use of <code>isNaN</code> function?	Returns a true argument is not a number, otherwise returns false
What are undeclared and undefined variables?	Undeclared variables are variables that do not exist in the program and are not declared. Undefined variables are variables that have been declared but have no assigned value.
What is a prompt box?	It is a box that allows the user to enter input by providing a text box.