Career Services Assignment 3 – Java Flash Cards

**Points possible:** 50

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| Category | Criteria | % of Grade |
| Completeness | All requirements of the assignment are complete. | 100 |

**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.

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| **Front of Card** | **Back of Card** |
| Can you name 2 Programming paradigms important for JS Developers? | Object Oriented Programming/Functional Programming/Imperative & Procedural |
| What is functional programming? | It produces programs by composing mathematical functions and |
| What are the data types available in JS? | Boolean, Number, Object, String, Undefined |
| Why wrap the content of a JS source file in a function block? | This technique encloses the file contents creating a private namespace which avoids conflict between objects and the libraries they are housed in. |
| What is NaN and its purpose? | NaN is returned when a value in an operation is not a number. This occurs when an operation cannot be returned because part of a function was non-numeric or because the result is non-numeric in value. |
| What are the advantages of using JavaScript? | It is easy to learn, a client-side language, fast, it does not require a compiler, it is an event based language making it intuitive. |
| What is asynchronous programming why is it important? | It means the engine runs in an event loop. User interfaces are asynchronous by nature and spend most of their time waiting for user input to interrupt the even loop and trigger event handlers. |
| What are the disadvantages of using JavaScript? | JavaScript’s main weakness is security another weakness is its ubiquity and versatility meaning there is a lot of room for programming quirks that can lead to inconsistent performance across different platforms. |
| What is the difference between classical and prototypal inheritance? | With classical inheritance a constructor function instantiates an instance via the “new” keyword. This new instance inherits properties from the parent class. With prototypal inheritance an instance is created by cloning an existing object that serves as a prototype. Often instantiated using a factory function or “Object.create()” can benefit from selective inheritance from many different objects. |
| What is the drawback of creating true private methods in JS? | They are very memory-inefficient a new copy of the method would be created for each instance. |
| What is a “closure” in JS? | A closure is a function defined inside another function(parent function), which has access to variables that are declared and defined in the parent function scope. |
| How do you empty an array in JS? | arrayList.splice(0, array.List.length); |
| What are global variables? | Global variables are those that are available throughout the length of the code they have no scope. |
| What is ‘this’ keyword in JS? | ‘This’ keyword refers to the object from where it was called. |
| How do timers work in JS? | Timers are used to execute a piece of code at a set time or to repeat the code at a given interval of time. This done by using the following: The setTimeout(function, delay) function is used to start a timer that calls a specific function after the mentioned delay. The setInterval(function, delay) function is used to repeatedly execute the given function in the mentioned delay and only halts when cancelled. The clearInterval(id) function instructs the timer to stop. |
| What symbols are used in JS to comment out code? | // is used for single line comments and /\* \*/ are used for multi-line comments. |
| What are all the looping structures in JS? | These are the looping structures in JavaScript: For, While, do-while loops. |
| What is Variable typing in JS? | Variable typing is used to assign a number to a variable and the same variable can be assigned to a string. i=0; i= “string”; |
| What does NULL mean in JS? | The value NULL is used to represent no value or no object. |
| What is the delete operator used for? | The keyword delete is used to delete the property as well as its value. |