

Lab 2 Task 3
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Write a document that lists the similarities and differences between the JavaScript you wrote in this lab and your knowledge of Java. You may add examples of code where appropriate. The document should not be any longer than 1 page.

While the same functionality can be achieved in both languages there are many differences between Java and JavaScript.

For example variables are not given types in JavaScript as they are in Java.

Java:

```
String name = "john";
```

JavaScript:

```
var name = "john";
```

(var can also be replaced by let. Let is a local variable, where var can be called anywhere within the file)

JavaScript also does not require a main method where Java does. JavaScript will simply take anything not in a function as the main method.

Other than that most of the difference is in syntax and the input and output tools available in the different languages. Method declarations are different, the way strings are compared is different.

Method declarations:

Java:

```
public void functionName(type arg1, type arg2){}
```

JavaScript:

```
function functionName(arg1, arg2){}
```

Methods in Java need to have argument types specified where JavaScript does not. Also JavaScript has no need for the public/private prefix used on Java methods as similar results can be reproduced using constants and let. For methods you can use a “#” to mark functions as private. (This is outside the realm of this lab just got a little caught up in looking things up and discovered this. So I mentioned it.)

How string variables are compared example:

Java:

```
String1.equals(String2)
```

JavaScript:

```
String1 == String2
```

The way you import tools are also different between the two languages.