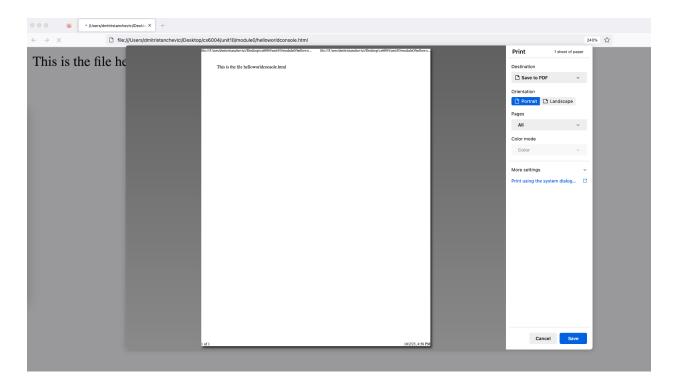
Dmitri Stanchevici Unit 10 Module 0

# Ex. 0.1

When I remove the console part of the browser and open the file, I see this in the browser:

This is the file helloworldconsole.html

After uncommenting the print statement, in helloworldconsole.js, I see this:



• /Users/dn	nitristanchevici/Deskto X //Users/dmitristanchevici/Desktop/cs X +
← → G	🗅 file:///Users/dmitristanchevici/Desktop/cs6004/unit10/module0/helloworldbrowser.html
Run	
Hello World!	

#### Ex. 0.3

JavaScript was developed for Netscape by Brendan Eich in the half of the 1990s. Netscape desired a scripting language embedded in Netscape Navigator, the most popular web browser at the time. This scripting language was supposed to make webpages, which had hitherto been static, dynamic, allowing users to get webpages to react to actions like clicking or hovering the mouse or to textual input. After several initial names, Eich called the language JavaScript, a name that was supposed to attract attention by association with Java, a "hot" programming language at the time. Despite the common word "Java" in their names and despite JavaScript's use of some of Java's syntactic features (like the use of curly brackets), Java and JavaScript are different languages. The embedding of JavaScript into various browsers required standardization. Netascape submitted JavaScript to ECMA, an international standards organization. Today's standard for JavaScript is called ECMAScript, and its latest version was released in 2021.

#### Ex. 0.5

Changing "5" to "five" results in

z=five2 w=NaN

It is obvious that both "5" and "five" are treated as strings. Placing the "+" operator between a string ("5" or "five") and a number (2) converts the number variable into a string too concatenates these two strings. Thus "5" + 2 evaluates to "52," while "five" + 2 to "five2."

Placing the "-" between "five" and 2 is unacceptable, resulting in "NaN." However, placing "-" between the string "5" and the number 2 converts "5" into the number 5 and thus evaluates to 3.

#### With x = 1 commented out, the output is

```
undefined
2
5
4
```

#### With **let y = 3** uncommented, the output is

undefined

## Ex. 0.8

```
Run

i=43
j=0
k=NaN
m=Infinity
number and string
```

```
Gateway to CS
                              × localhost:63342/module0/string × +
Run
str=I don't like sentences that end abrup
                                                                                       println("str=" + str);
str.length=37
subStr(2,12)=don't like
indexOf("like")=8
str.slice(-1)=p
str2= Whatever
str3=whatever
[don't like] equals [don't like]
                                                                                       let y = str.slice(-1);
                                                                                       println("str.slice(-1)=" + y)
                                                                                       println("str2=" + str2);
                                                                                       let str3 = str2.trim().toLowerCase();
                                                                                       let str4 = str2.charAt(1);
```

### Ex. 0.10

## Ex. 0.12

Using an assignment in an if-expression is acceptable. The output of

```
if (i = 4) {
    println ("Four");
}
```

is

Four

```
| Camery In Case | Camery In Case | Camery In Case | Case
```

### Ex. 0.14

i=7 j=22

### Ex. 0.15

#### Printed is

k=4 batman

### Ex. 0.16

#### Printed is

We have 4 of banana And 5 of apple #fruits=4 first=banana last=pear apple kiwi

#### Printed is

```
Tarzan debuted in 1912
Zorro debuted in 1919
{"name": "Sheena", "debut": 1937}
```