

Homework 2

1. Start Chapter 2 in JavaScript for Kids. Read pages 13 – 24 and type the examples in blue from your reading into your Google console. See if you can figure out the TRY IT OUT! sections in your reading.

Decimal digit range [0..9]	Binary digit range [0..1]	Hexadecimal digit range [0..F]
0	0000	0
1	0001	1
2	0010	2
3		3
4	0100	4
	0101	5
6	0110	6
7	0111	7
8		8
9	1001	9
10	1010	A
11	1011	
12	1100	C
13		D
14	1110	E
	1111	F

2. Fill in the missing cells in the chart above.

3. Using the chart above, convert 0x22BF to binary. (Remember, 0x before a number only means a hexadecimal number coming up. Only convert the 4 hexadecimal digits to binary.)

4. What is the printed to the console with the following statement:

```
console.log('I am the \u0391 and the \u03A9.');// 0 is a zero
```

5. Go to <https://unicodelookup.com/> and look up 0x22BF. What Unicode character did that code for?

6. What is the three-letter word that means binary digit? _____

7. How many bytes make up four hexadecimal digits? _____ (Remember: 8 bits in a byte and 4 bits in a hexadecimal digit.)

8. Circle the correct answer as it pertains within the quotes of a console.log statement:

- a. The escape character is a forward slash.
- b. The escape character is a backward slash.

9. What is wrong with the following statement:

```
console.log('It's not a good idea to code this way.');
```

10. JavaScript is _____ in a Google Chrome browser.

- a. assembled
- b. compiled
- c. interpreted

11. Brendan Eich developed Mocha in 1995. Mocha eventually became JavaScript.

- a. true
- b. false

12. Besides JavaScript, what would be beneficial to learn to be a front-end web developer?

- a. Python and SQL
- b. HTML and CSS
- c. Pearl and Ruby

13. What is the result of:

```
15 % 6; //test in the console, if needed
```

14. Why should a programmer put comments in his/her code?