0x12. JavaScript - Warm up

In a nutshell...

• Auto QA review: 61.05/113 mandatory & 17.95/29 optional

• Altogether: 87.47%

Mandatory: 54.03%Optional: 61.9%

o Calculation: 54.03% + (54.03% * 61.9%) == **87.47%**

Background Context

JavaScript is used for many things. Here, you will use JavaScript for 2 reasons:

- Scripting (same as we did with Python)
- Web front-end

For the moment, and for learning all basic concepts of this language, we will do some scripting. After, we will make our AirBnB project dynamic by using Javascript and JQuery.

Davascript



Please Just Work

MemeBucket.com

Resources

Read or watch:

- Writing JavaScript Code
- Variables
- Data Types
- Operators
- Operator Precedence
- Controlling Program Flow
- Functions
- Objects and Arrays

- Intrinsic Objects
- Module patterns
- var, let and const
- JavaScript Tutorial
- Modern JS

Learning Objectives

At the end of this project, you are expected to be able to explain to anyone, without the help of Google:

General

- Why JavaScript programming is amazing
- How to run a JavaScript script
- How to create variables and constants
- What are differences between var, const and let
- What are all the data types available in JavaScript
- How to use the if, if ... else statements
- How to use comments
- How to affect values to variables
- How to use while and for loops
- How to use break and continue statements
- What is a function and how do you use functions
- What does a function that does not use any return statement return
- Scope of variables
- What are the arithmetic operators and how to use them
- How to manipulate dictionary
- How to import a file

Copyright - Plagiarism

- You are tasked to come up with solutions for the tasks below yourself to meet with the above learning objectives.
- You will not be able to meet the objectives of this or any following project by copying and pasting someone else's work.
- You are not allowed to publish any content of this project.
- Any form of plagiarism is strictly forbidden and will result in removal from the program.

Requirements

General

- Allowed editors: vi, vim, emacs
- All your files will be interpreted on Ubuntu 20.04 LTS using node (version 14.x)
- All your files should end with a new line
- The first line of all your files should be exactly #!/usr/bin/node
- A README.md file, at the root of the folder of the project, is mandatory
- Your code should be semistandard compliant (version 16.x.x). Rules of Standard + semicolons on top. Also as reference: AirBnB style
- All your files must be executable
- The length of your files will be tested using wc

More Info

Install Node 14

```
$ curl -sL https://deb.nodesource.com/setup_14.x | sudo -E bash -
$ sudo apt-get install -y nodejs
```

Install semi-standard

Documentation

```
$ sudo npm install semistandard --global
```

Quiz questions

Great! You've completed the guiz successfully! Keep going!

Question #0

Does Javascript have String as a native datatype?

•

Yes

- - (.

-	
(1
	(

Question #1



- 6

Yes

No

Question #2

Does Javascript have **Set** as a native datatype?

_ <

Yes

. . . (9

No

Question #3

Does Javascript have **Dictionary** as a native datatype?

. 0

Yes

•

No

Tips:

Everything is **Object** and **Object** type in Javascript is powerful.

Question #4

What does let mean? (please check all true answers)

•	
	It's the keyword to define a variable in the local scope
•	
	It's the keyword to define a global variable
•	
	It's the keyword to define a variable with optionally initializing it to a value
•	
	It's the keyword to define a constant variable
•	
	It's the keyword to define a variable that can be re-assign during the execution
Quest	ion #5
What	does const mean? (please check all true answers)
•	
	It's the keyword to define a variable in the local scope
•	
	It's the keyword to define a global variable
•	
	It's the keyword to define a variable with optionally initializing it to a value
•	
	It's the keyword to define a constant variable
•	
	It's the keyword to define a variable that can be re-assign during the execution

Tasks

0. First constant, first print

mandatory

Score: 100.0% (*Checks completed: 100.0%*)

Write a script that prints "JavaScript is amazing":

- You must create a constant variable called myVar with the value "JavaScript is amazing"
- You must use console.log(...) to print all output
- You are not allowed to use var

```
guillaume@ubuntu:~/0x12$ ./0-javascript_is_amazing.js

JavaScript is amazing
guillaume@ubuntu:~/0x12$
guillaume@ubuntu:~/0x12$ semistandard ./0-javascript_is_amazing.js
guillaume@ubuntu:~/0x12$
```

Repo:

- GitHub repository: alx-higher_level_programming
- Directory: 0x12-javascript-warm_up
- File: 0-javascript_is_amazing.js

Done! Help Check your code Get a sandbox QA Review

1. 3 languages

mandatory

Score: 70.83% (*Checks completed: 100.0%*)

Write a script that prints 3 lines:

- The first line: "C is fun"
- The second line: "Python is cool"
- The third line: "JavaScript is amazing"
- You must use console.log(...) to print all output
- You are not allowed to use var

```
guillaume@ubuntu:~/0x12$ ./1-multi_languages.js
C is fun
Python is cool
```

```
JavaScript is amazing
guillaume@ubuntu:~/0x12$
```

- GitHub repository: alx-higher level programming
- Directory: 0x12-javascript-warm_up
- File: 1-multi languages.js

Done! Help Check your code Get a sandbox QA Review

2. Arguments

mandatory

Score: 51.88% (*Checks completed: 100.0%*)

Write a script that prints a message depending of the number of arguments passed:

- If no arguments are passed to the script, print "No argument"
- If only one argument is passed to the script, print "Argument found"
- Otherwise, print "Arguments found"
- You must use console.log(...) to print all output
- You are not allowed to use var

Reference: process.argv

```
guillaume@ubuntu:~/0x12$ ./2-arguments.js
No argument
guillaume@ubuntu:~/0x12$ ./2-arguments.js Best
Argument found
guillaume@ubuntu:~/0x12$ ./2-arguments.js Best School
Arguments found
guillaume@ubuntu:~/0x12$
```

Repo:

- GitHub repository: alx-higher level programming
- Directory: 0x12-javascript-warm_up
- File: 2-arguments.js

Done! Help Check your code QA Review

3. Value of my argument

mandatory

Score: 51.88% (*Checks completed: 100.0%*)

Write a script that prints the first argument passed to it:

- If no arguments are passed to the script, print "No argument"
- You must use console.log(...) to print all output
- You are not allowed to use var
- You are not allowed to use length

```
guillaume@ubuntu:~/0x12$ ./3-value_argument.js
No argument
guillaume@ubuntu:~/0x12$ ./3-value_argument.js School
School
guillaume@ubuntu:~/0x12$
```

Repo:

- GitHub repository: alx-higher_level_programming
- Directory: 0x12-javascript-warm_up
- File: 3-value_argument.js

Done! Help Check your code QA Review

4. Create a sentence

mandatory

Score: 51.88% (*Checks completed: 100.0%*)

Write a script that prints two arguments passed to it, in the following format: " is "

- You must use console.log(...) to print all output
- You are not allowed to use var

```
guillaume@ubuntu:~/0x12$ ./4-concat.js c cool

c is cool

guillaume@ubuntu:~/0x12$ ./4-concat.js c

c is undefined

guillaume@ubuntu:~/0x12$ ./4-concat.js

undefined is undefined

guillaume@ubuntu:~/0x12$
```

Repo:

- GitHub repository: alx-higher_level_programming
- Directory: 0x12-javascript-warm_up

• File: 4-concat.js

Done! Help Check your code Get a sandbox QA Review

5. An Integer

mandatory

Score: 50.0% (Checks completed: 100.0%)

Write a script that prints My number: <first argument converted in integer> if the first argument can be converted to an integer:

- If the argument can't be converted to an integer, print "Not a number"
- You must use console.log(...) to print all output
- You are not allowed to use var
- You are not allowed to use try/catch

```
guillaume@ubuntu:~/0x12$ ./5-to_integer.js
Not a number
guillaume@ubuntu:~/0x12$ ./5-to_integer.js 89
My number: 89
guillaume@ubuntu:~/0x12$ ./5-to_integer.js "89"
My number: 89
guillaume@ubuntu:~/0x12$ ./5-to_integer.js 89.89
My number: 89
guillaume@ubuntu:~/0x12$ ./5-to_integer.js School
Not a number
guillaume@ubuntu:~/0x12$
```

Repo:

- GitHub repository: alx-higher_level_programming
- Directory: 0x12-javascript-warm up
- File: 5-to_integer.js

Done! Help Check your code QA Review

6. Loop to languages

mandatory

```
Score: 29.55% (Checks completed: 45.45%)
```

Write a script that prints 3 lines: (like 1-multi_languages.js) but by using an array of string and a loop

- The first line: "C is fun"
- The second line: "Python is cool"
- The third line: "JavaScript is amazing"
- You must use console.log(...) to print all output
- You are not allowed to use var
- You are not allowed to use any if/else statement
- You can use only one console.log
- You must use a loop (while, for, etc.)

```
guillaume@ubuntu:~/0x12$ ./6-multi_languages_loop.js
C is fun
Python is cool
JavaScript is amazing
guillaume@ubuntu:~/0x12$
```

- GitHub repository: alx-higher_level_programming
- Directory: 0x12-javascript-warm_up
- File: 6-multi_languages_loop.js

Done? Help Check your code Ask for a new correction Get a sandbox QA Review

7. I love C

mandatory

Score: 51.88% (*Checks completed: 100.0%*)

Write a script that prints x times "C is fun"

- Where x is the first argument of the script
- If the first argument can't be converted to an integer, print "Missing number of occurrences"
- You must use console.log(...) to print all output
- You are not allowed to use var
- You can use only two console.log
- You must use a loop (while, for, etc.)

```
guillaume@ubuntu:~/0x12$ ./7-multi_c.js 2
C is fun
C is fun
guillaume@ubuntu:~/0x12$ ./7-multi_c.js 5
C is fun
C is fun
```

```
C is fun
C is fun
G is fun
G is fun
guillaume@ubuntu:~/0x12$ ./7-multi_c.js
Missing number of occurrences
guillaume@ubuntu:~/0x12$ ./7-multi_c.js -3
guillaume@ubuntu:~/0x12$
```

- GitHub repository: alx-higher_level_programming
- Directory: 0x12-javascript-warm_up
- File: 7-multi_c.js

Done! Help Check your code Get a sandbox QA Review

8. Square

mandatory

Score: 51.88% (*Checks completed: 100.0%*)

Write a script that prints a square

- The first argument is the size of the square
- If the first argument can't be converted to an integer, print "Missing size"
- You must use the character X to print the square
- You must use console.log(...) to print all output
- You are not allowed to use var
- You must use a loop (while, for, etc.)

```
XXXXXXX

XXXXXXX
guillaume@ubuntu:~/0x12$ ./8-square.js -3
guillaume@ubuntu:~/0x12$
```

• GitHub repository: alx-higher_level_programming

• Directory: 0x12-javascript-warm_up

• File: 8-square.js

Done! Help